

ATTORNEY'S DOCKET NUMBER: 2003080-0054 (SK 893)
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Danishefsky et al. Examiner: Canella, Karen A
Patent No.: 7,879,335 Art Unit: 1643
Issue Date: February 1, 2011
Title: GLYCOCONJUGATES, GLYCOAMINO ACIDS,
INTERMEDIATES THERETO, AND USES THEREOF

VIA EFS-WEB FILING

ATTENTION: CERTIFICATE OF CORRECTION BRANCH

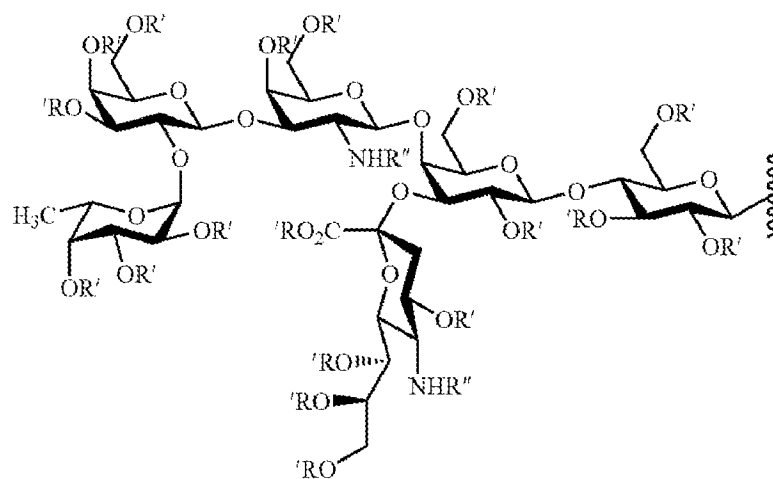
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION
UNDER 37 C.F.R. § 1.322(a) AND 37 C.F.R. § 1.323

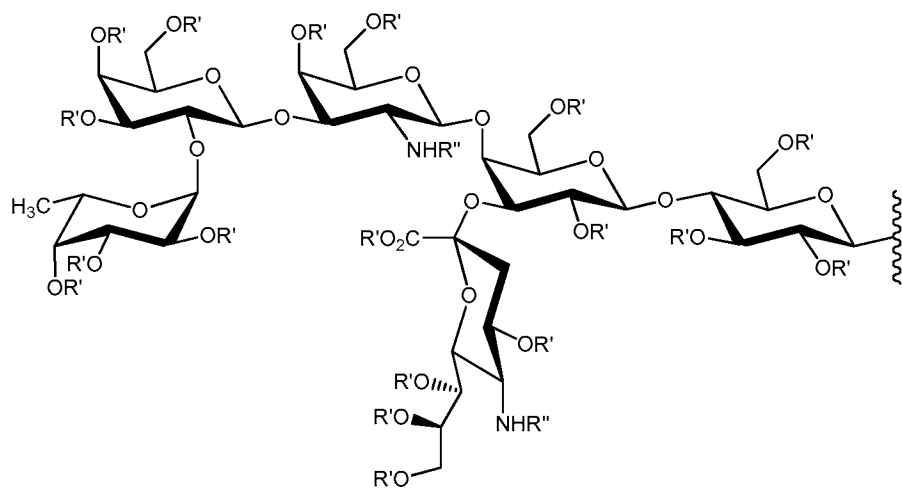
Examiner:

1. Attached is Form PTO/SB/44, suitable for printing.
2. The exact location (column and line number(s)) where the errors occur in the issued patent are as follows:

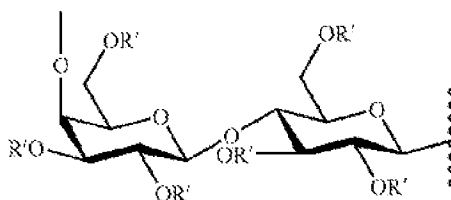
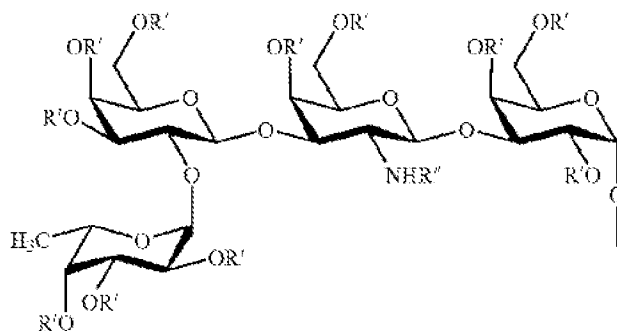
In claim 1, column 61, lines 7-24, please delete the structure:



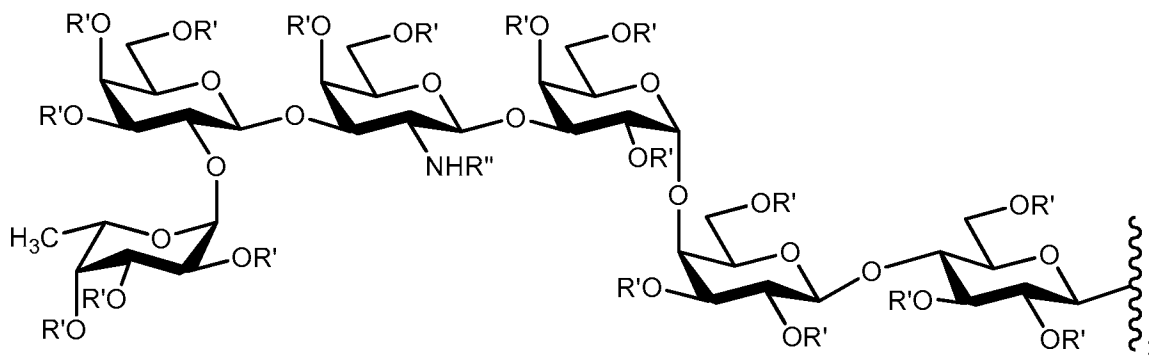
and insert the structure:



In claim 1, column 61, lines 26-48, please delete the structure:



and insert the structure:



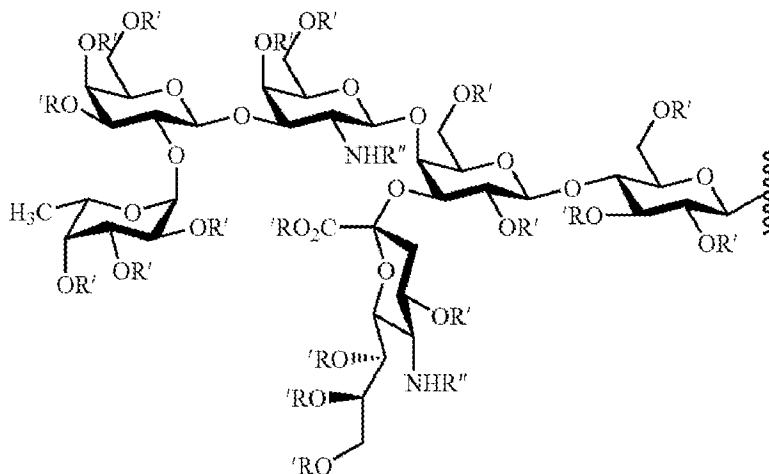
In claim 5, column 62, lines 44-50, please delete:

“wherein, for each of the structures above, n is 1-8, wherein A is a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Lee, N3, Tn, 2,6-STn, (2,3)ST, TF, and protected form thereof, a carbohydrate domain having the structure:”

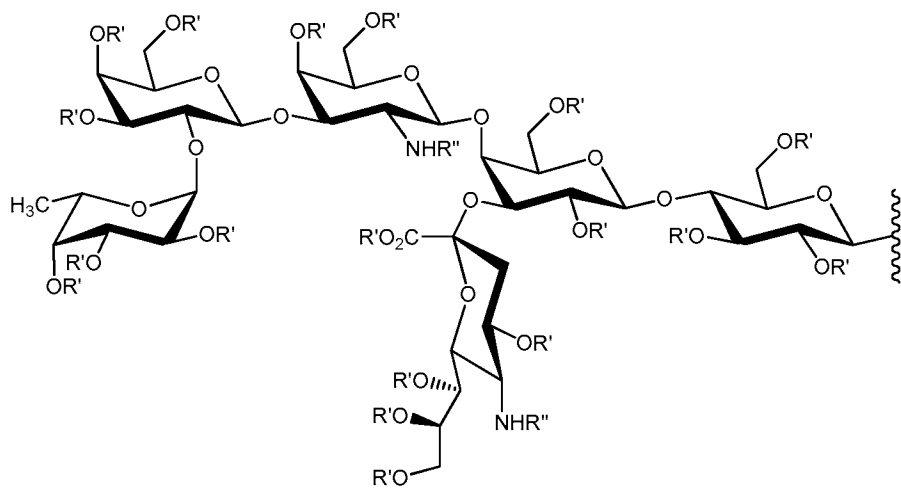
and insert:

--wherein, for each of the structures above, n is 1-8, wherein A is a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, TF, and protected form thereof, a carbohydrate domain having the structure:--

In claim 5, column 62, lines 51-66, please delete the structure:

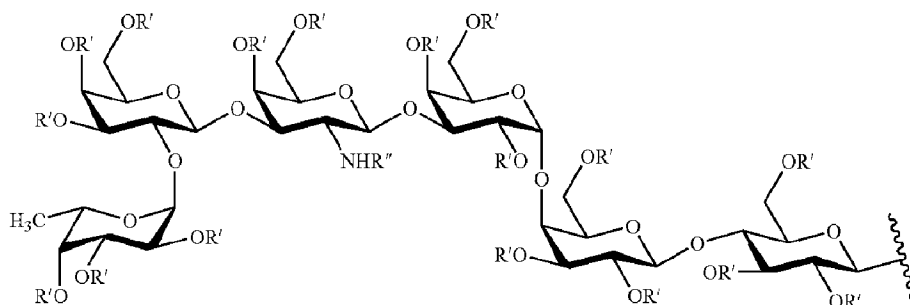


and insert the structure:

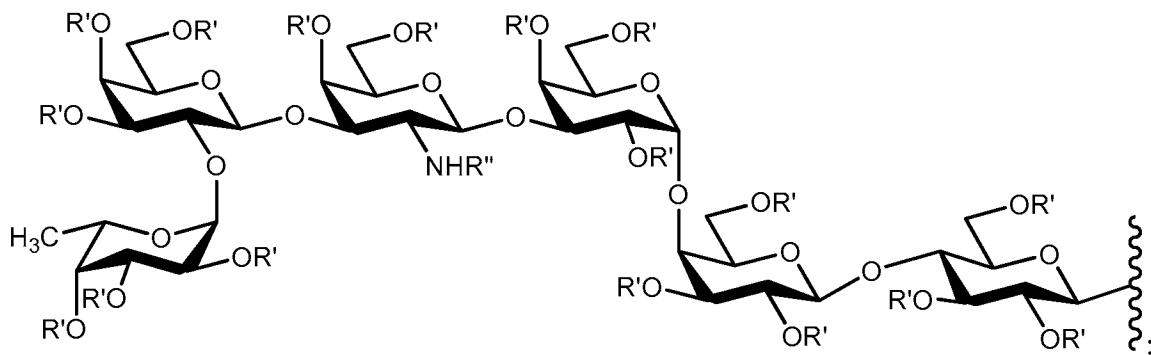


;

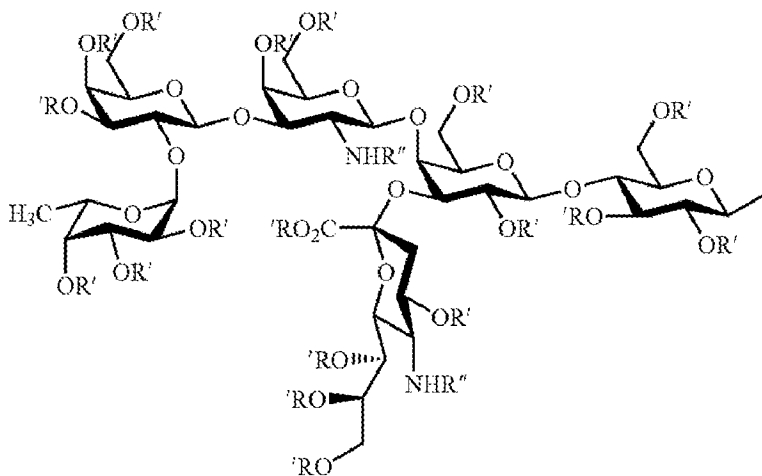
In claim 5, columns 63 and 64, lines 2-17, please delete the structure:



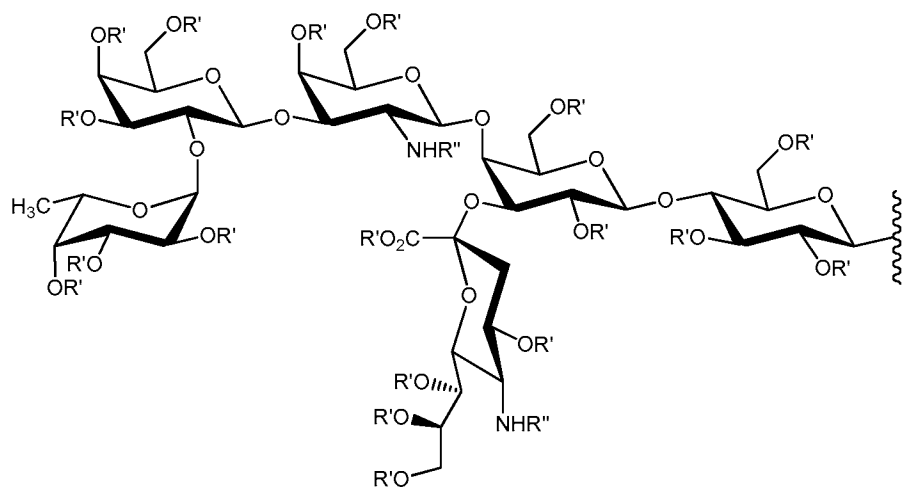
and insert the structure:



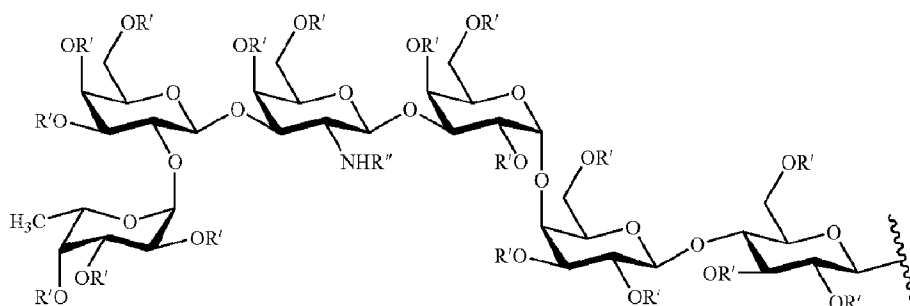
In claim 6, column 64, lines 52-66, please delete the structure:



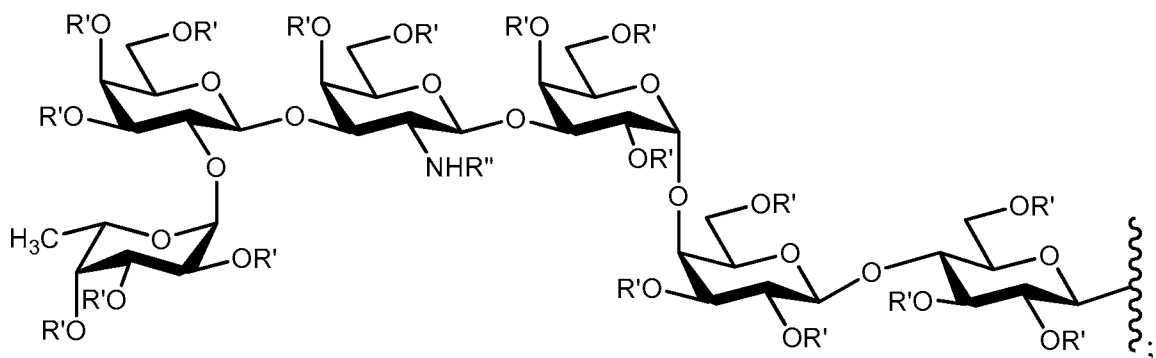
and insert the structure:



In claim 6, columns 65 and 66, lines 2-14, please delete the structure:



and insert the structure:



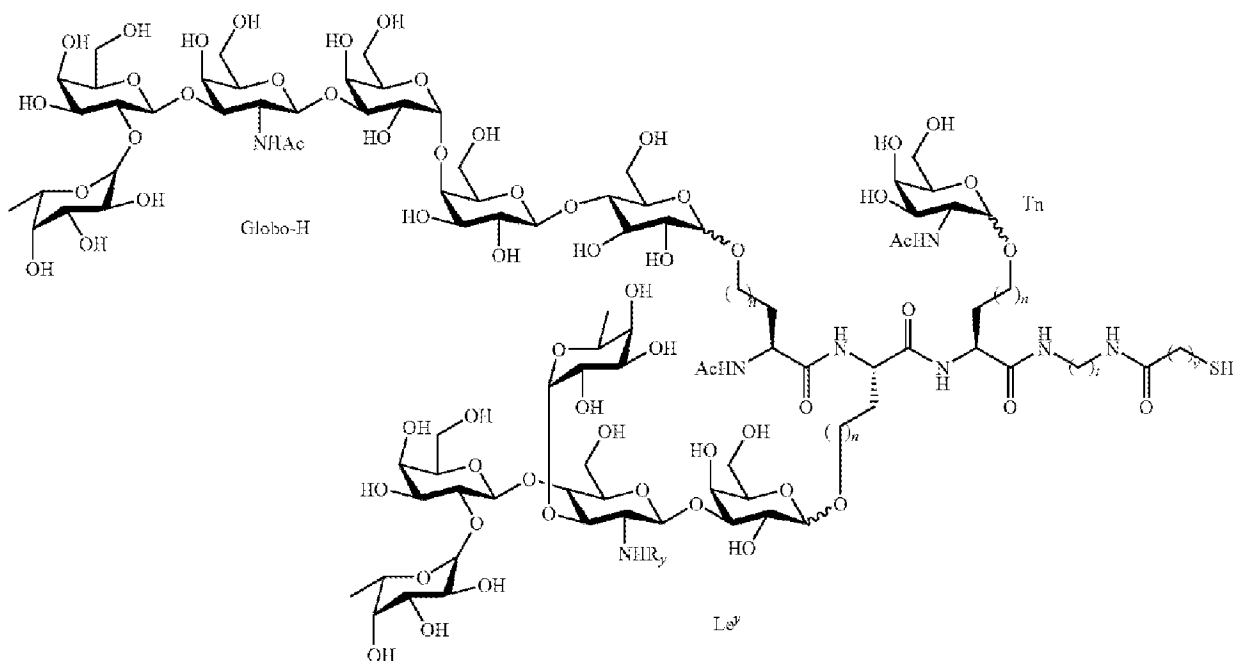
In claim 10, column 66, lines 28-31, please delete:

“10. The glycopeptide of claim 1 or 9 or the construct of claim 6, wherein each occurrence of A is independently Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Lee, N3, Tn, 2,6-STn, (2,3)ST, or TF.”

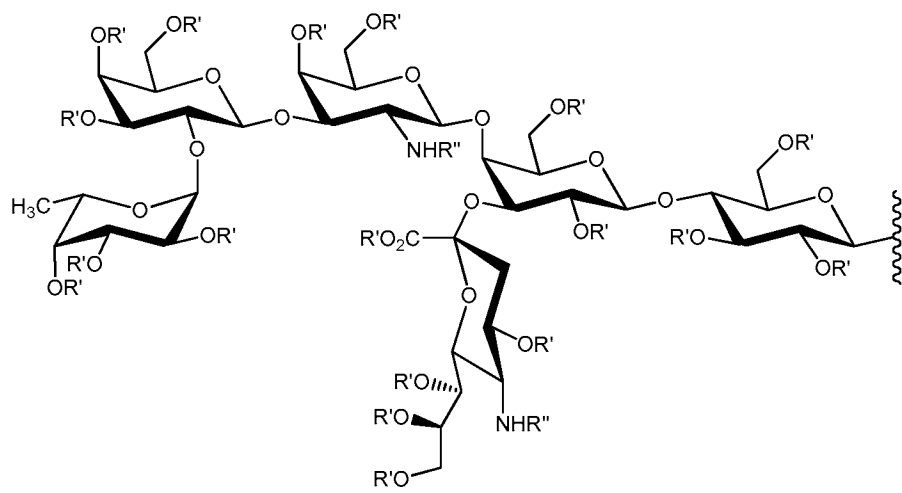
and insert:

--10. The glycopeptide of claim 1 or 9 or the construct of claim 6, wherein each occurrence of A is independently Globo-H, fucosyl GM1, KH-1, glycoporphin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, or TF.--

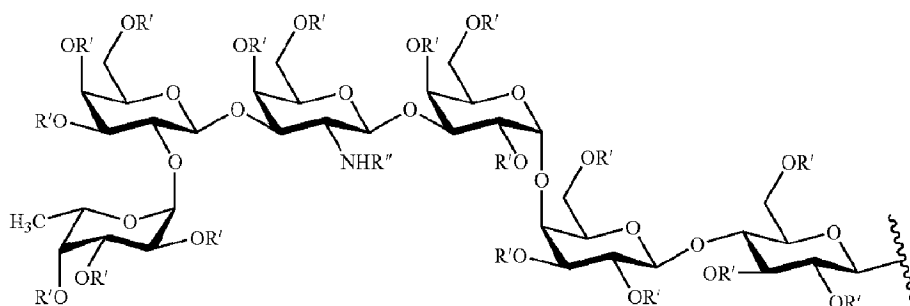
In claim 14, columns 65 and 66, lines 40-66, please delete the structure:



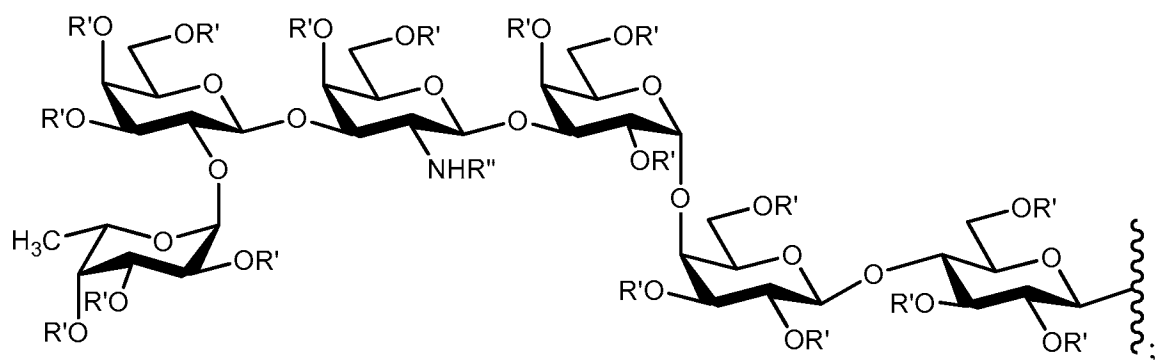
and insert the structure:



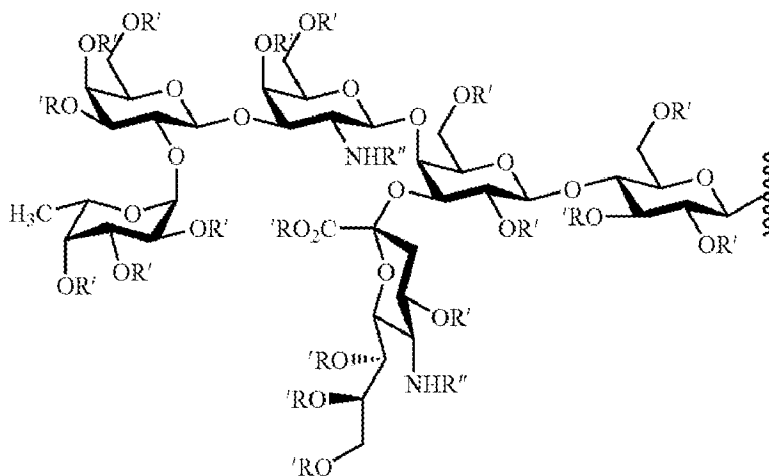
In claim 15, columns 67-68, lines 20-35, please delete the structure:



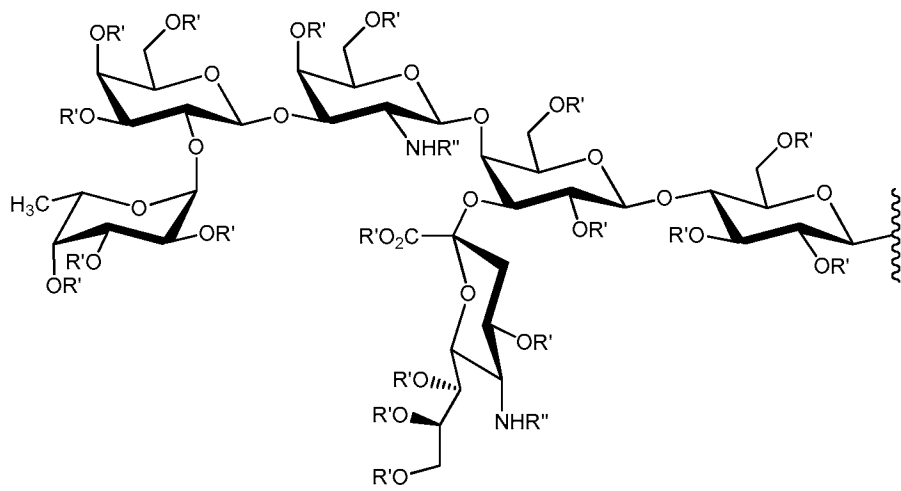
and insert the structure:



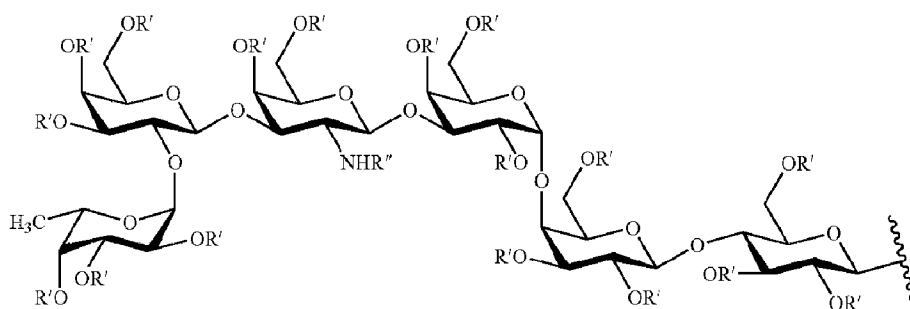
In claim 15, column 68, lines 46-60, please delete the structure:



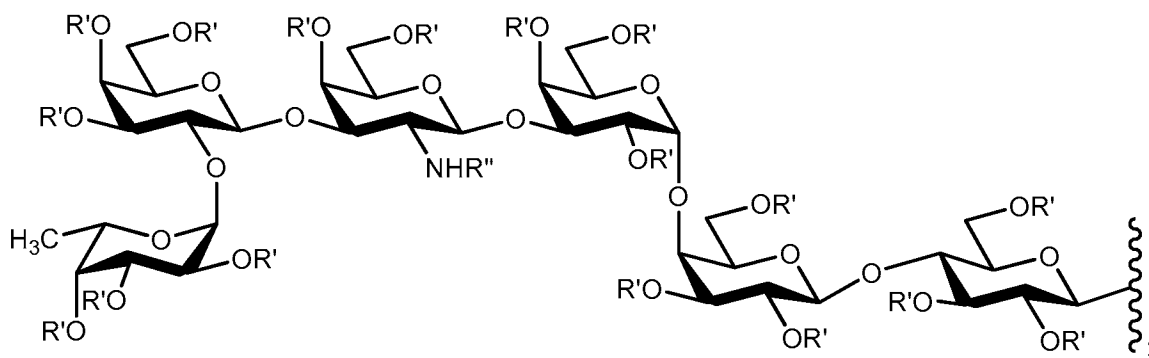
and insert the structure:



In claim 16, columns 69 and 70, lines 1-14, please delete the structure:



and insert the structure:



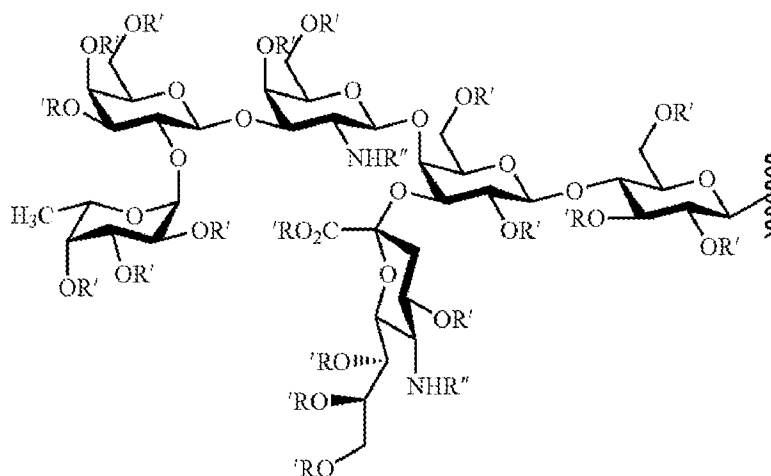
In claim 17, column 69, lines 48-52, please delete:

“each occurrence of A is independently a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Lee, N3, Tn, 2,6-STn, (2,3)ST, or TF, a carbohydrate domain having the structure:”

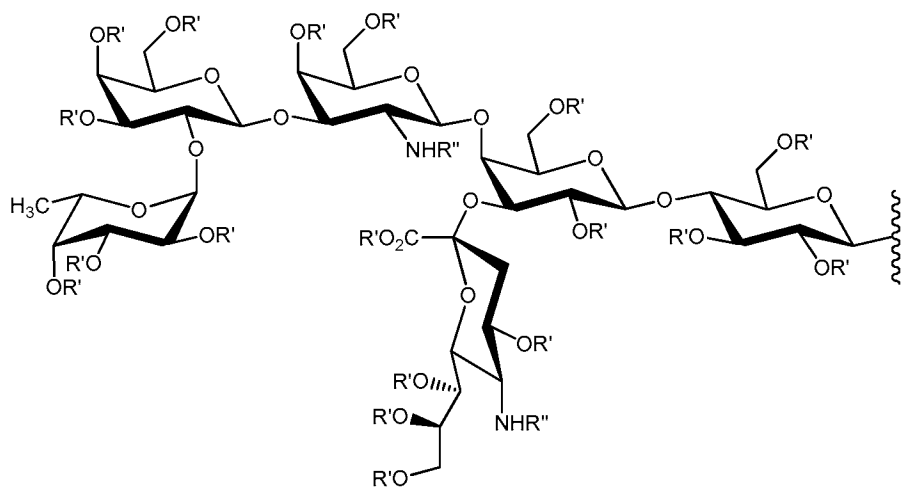
and insert:

-- each occurrence of A is independently a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, or TF, a carbohydrate domain having the structure:--

In claim 17, column 70, lines 36-51, please delete the structure:

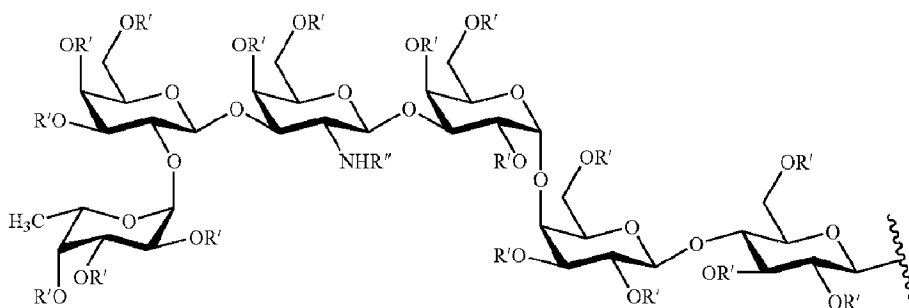


and insert the structure:

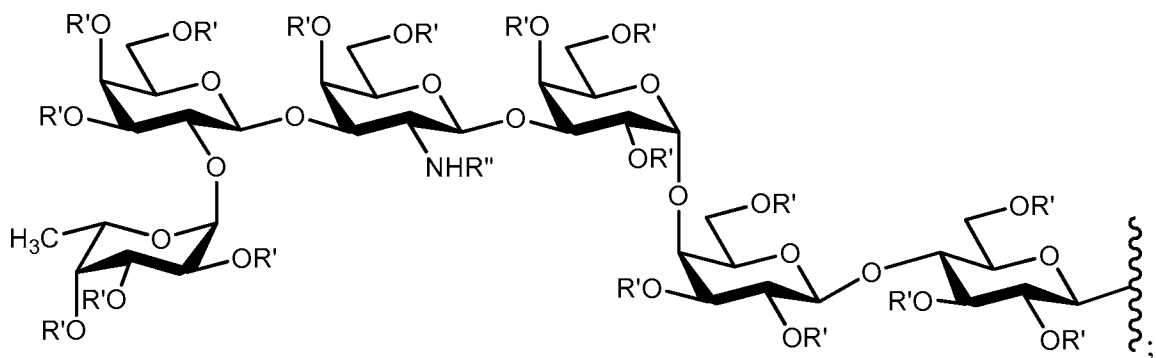


;

In claim 17, columns 69 and 70, lines 53-66, please delete the structure:



and insert the structure:



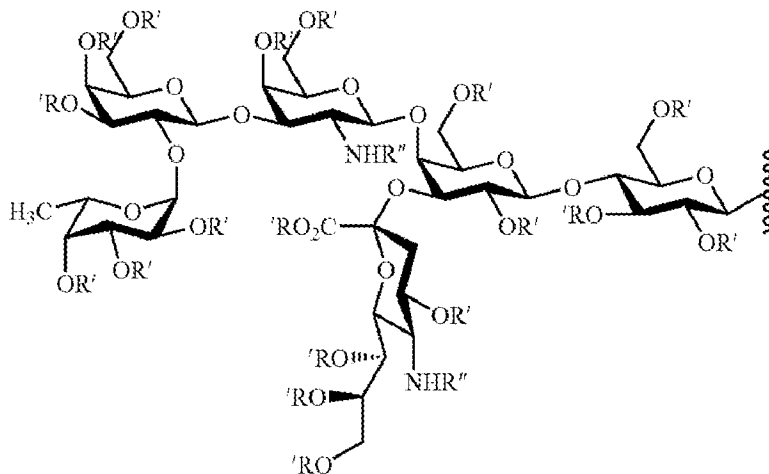
In claim 19, column 72, lines 31-35, please delete:

“wherein each occurrence of A is independently selected from a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Lee, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:”

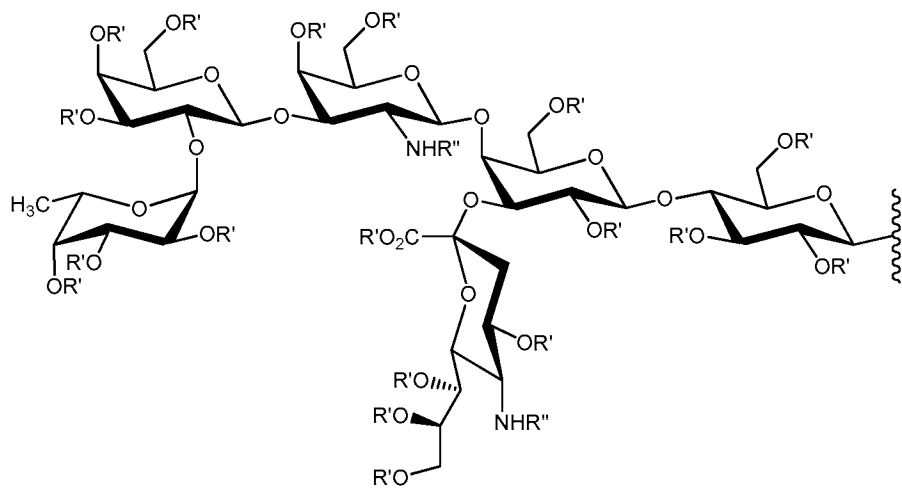
and insert:

-- wherein each occurrence of A is independently selected from a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:--

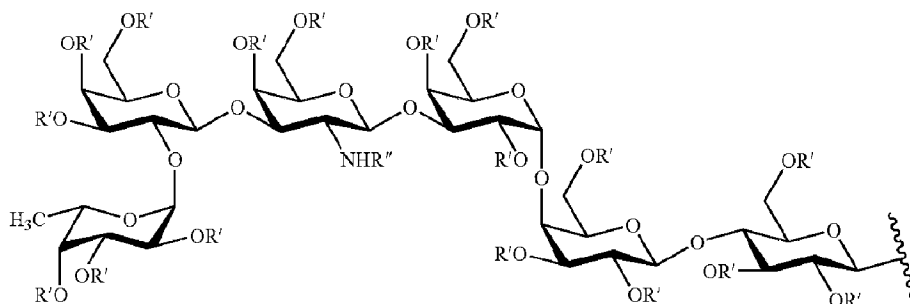
In claim 19, column 72, lines 36-50, please delete the structure:



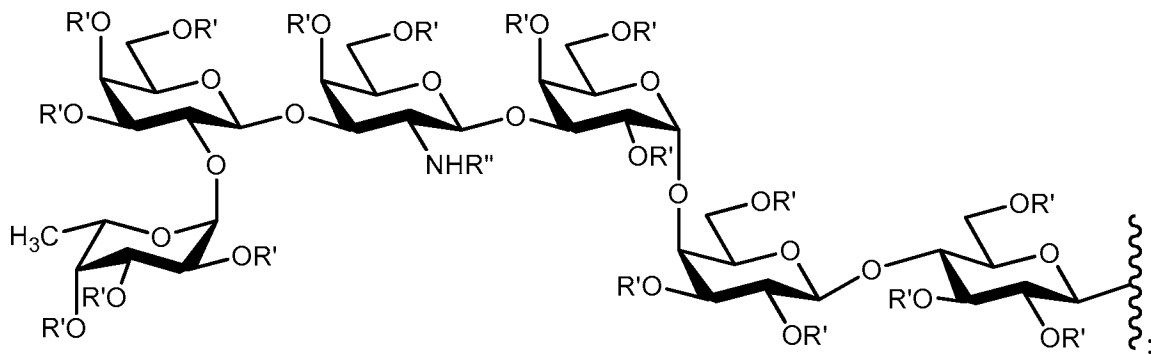
and insert the structure:



In claim 19, columns 71 and 72, lines 53-66, please delete the structure:



and insert the structure:



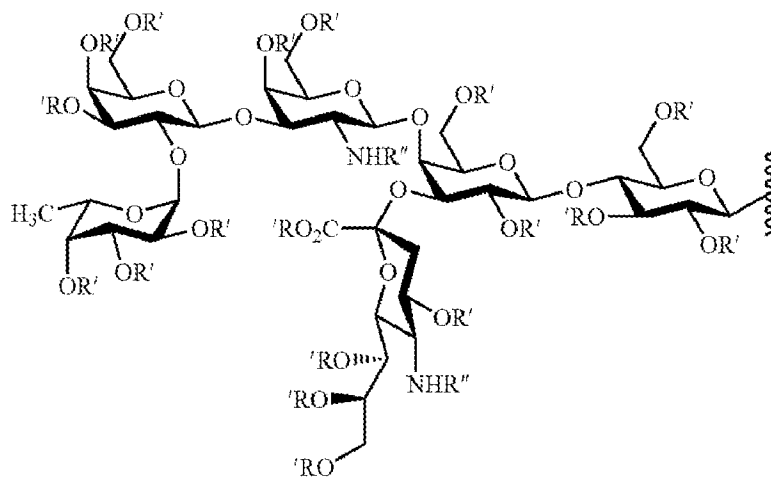
In claim 21, column 74, lines 13-17, please delete:

“wherein each occurrence of A is a carbohydrate determinant selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Lee, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:”

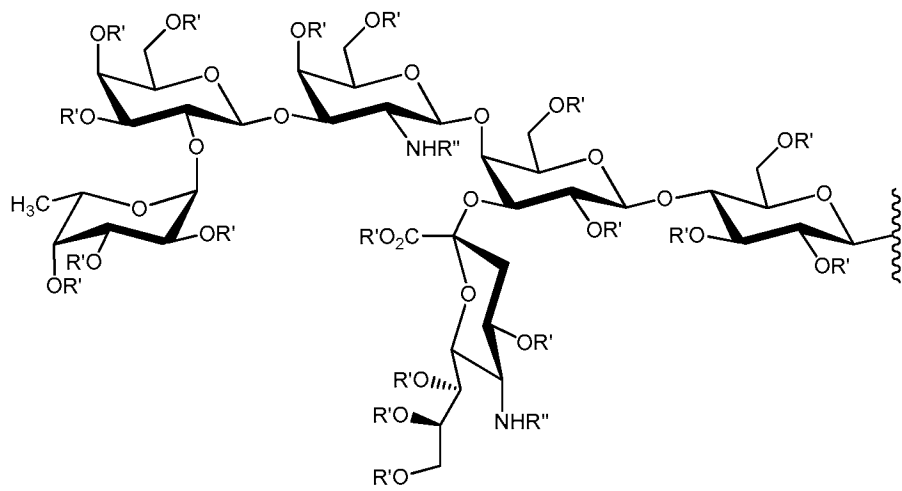
and insert:

--wherein each occurrence of A is a carbohydrate determinant selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure: --

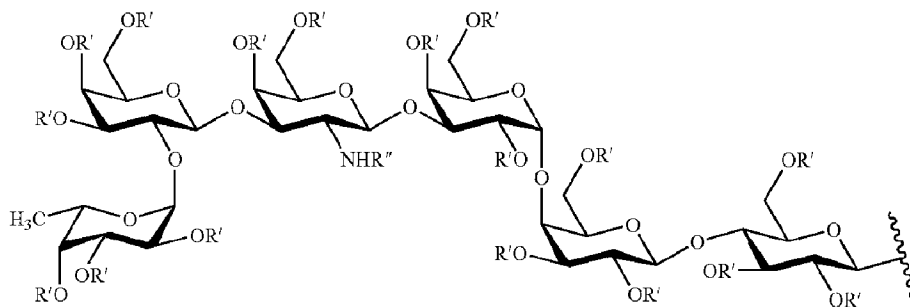
In claim 21, column 74, lines 19-33, please delete the structure:



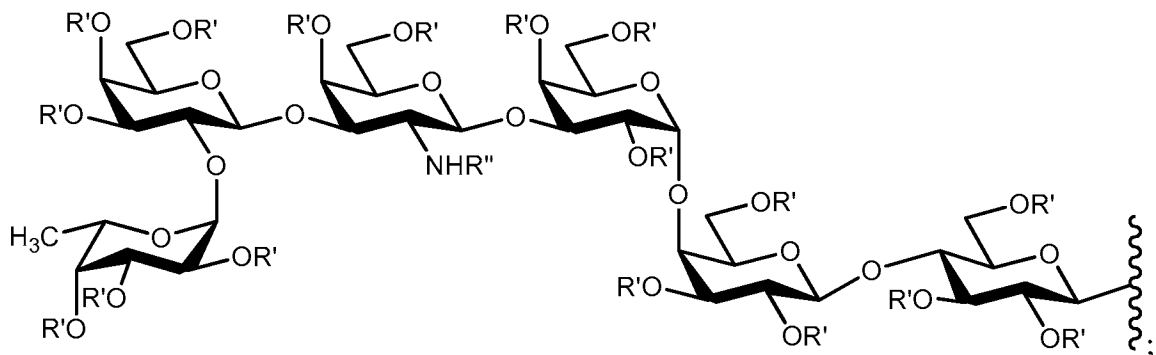
and insert the structure:



In claim 21, columns 73 and 74, lines 36-50, please delete the structure:



and insert the structure:



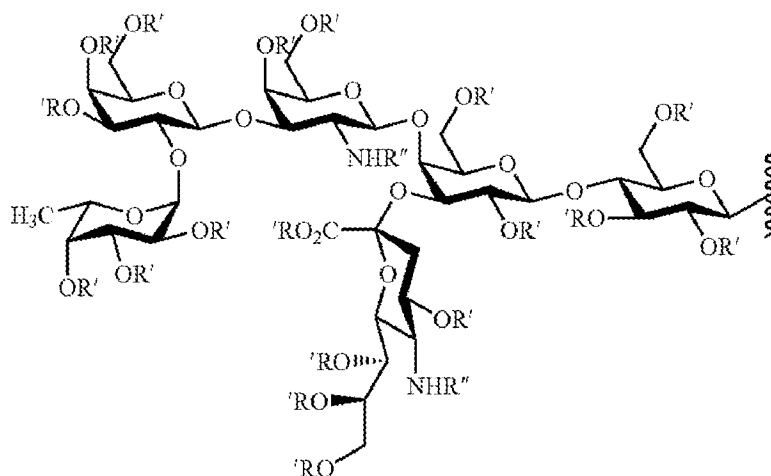
In claim 25, column 76, lines 20-24, please delete:

“wherein each occurrence of A is independently selected from a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Lee, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:”

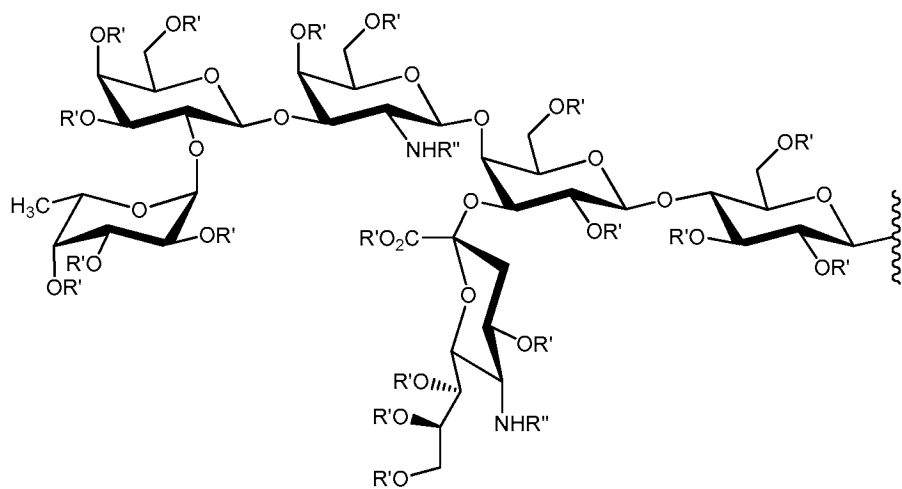
and insert:

--wherein each occurrence of A is independently selected from a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:--

In claim 25, column 76, lines 25-40, please delete the structure:

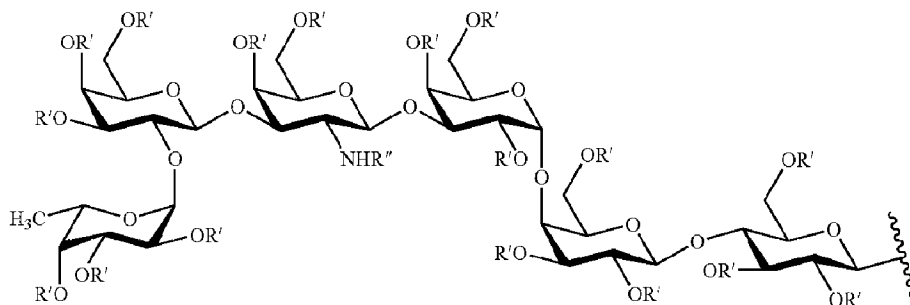


and insert the structure:

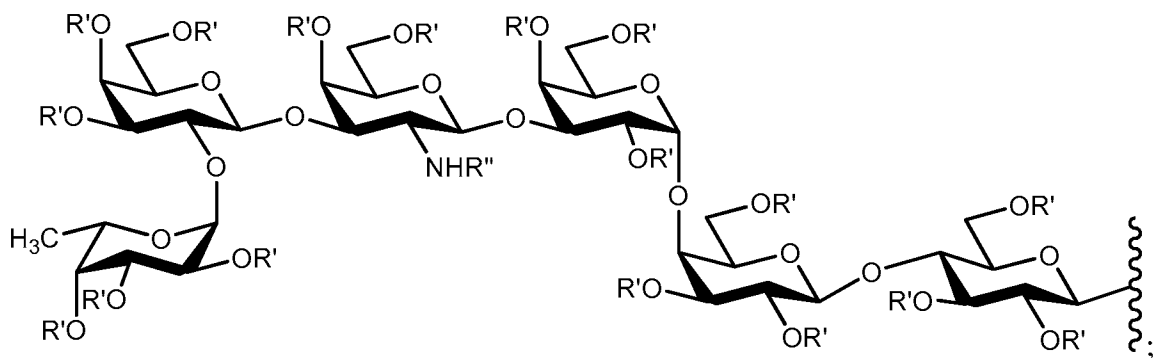


;

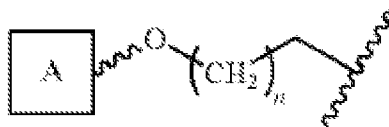
In claim 25, columns 75 and 76, lines 42-58, please delete the structure:



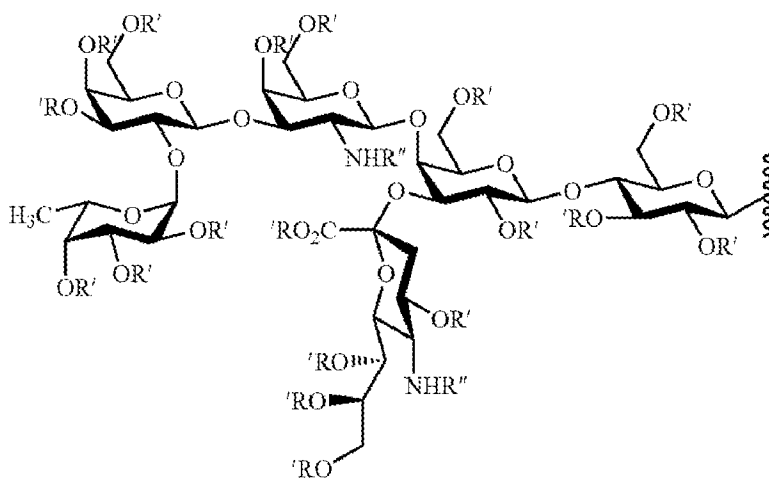
and insert the structure:



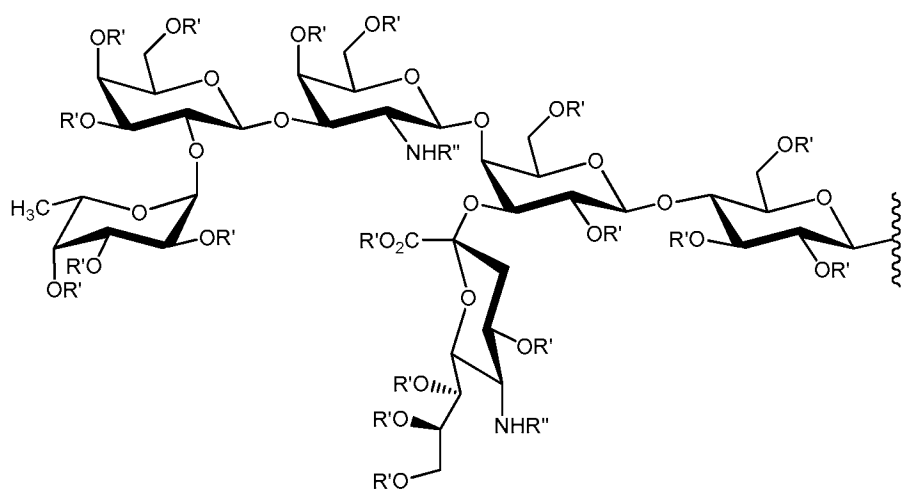
In claim 32, column 78, lines 50-54, please delete the structure:



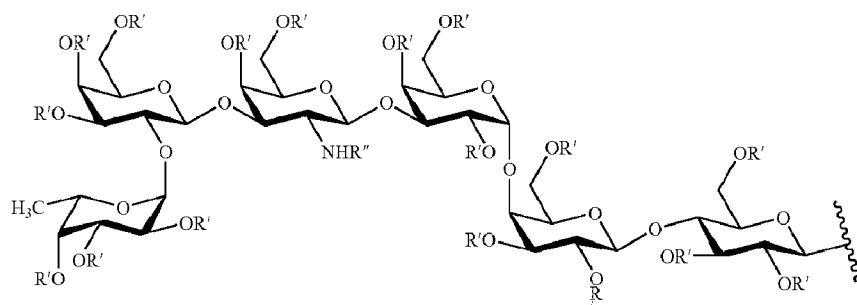
In claim 32, column 79, lines 4-18, please delete the structure:



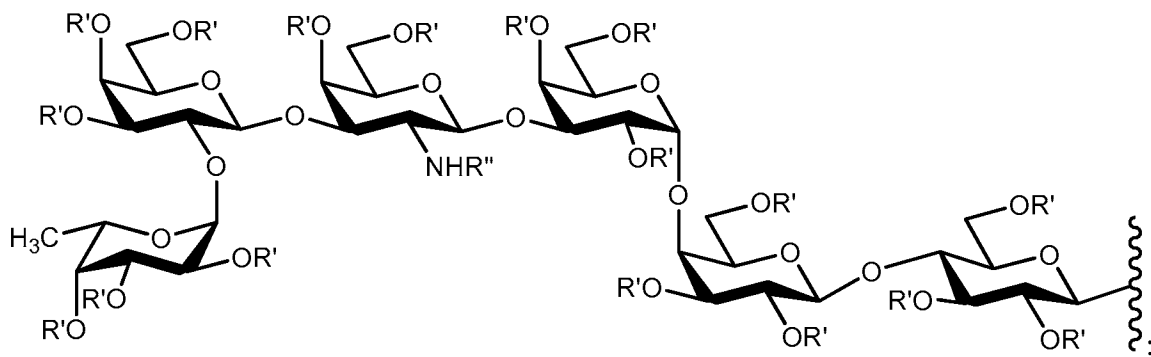
and insert the structure:



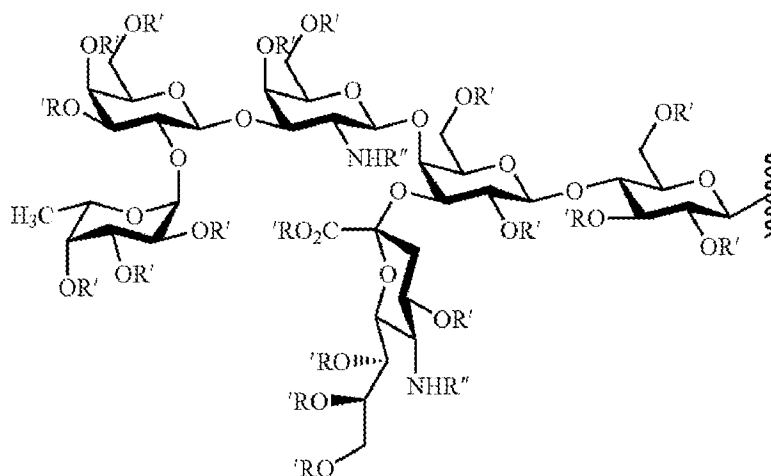
In claim 32, columns 79-80, lines 21-36, please delete the structure:



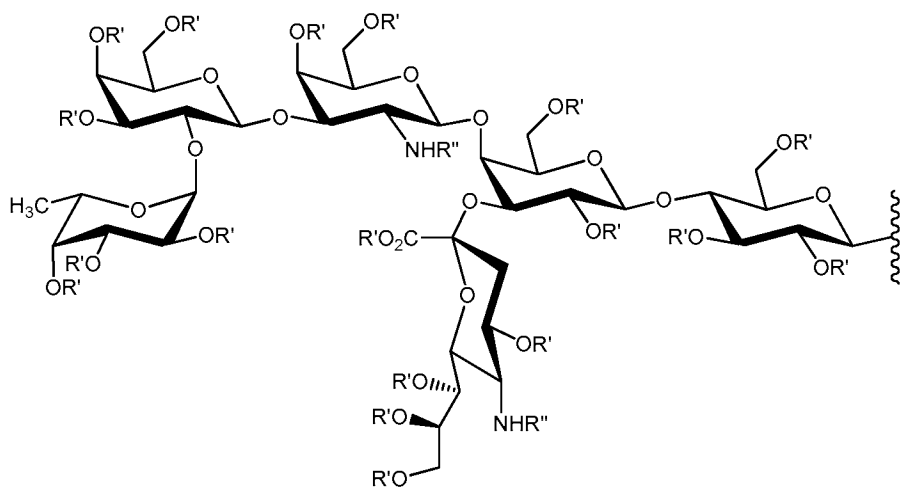
and insert the structure:



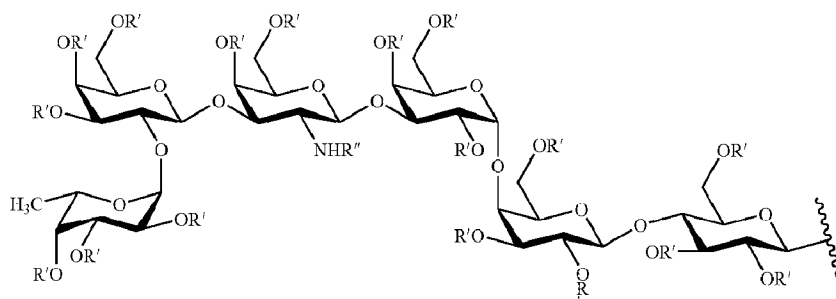
In claim 32, column 79, lines 46-60, please delete the structure:



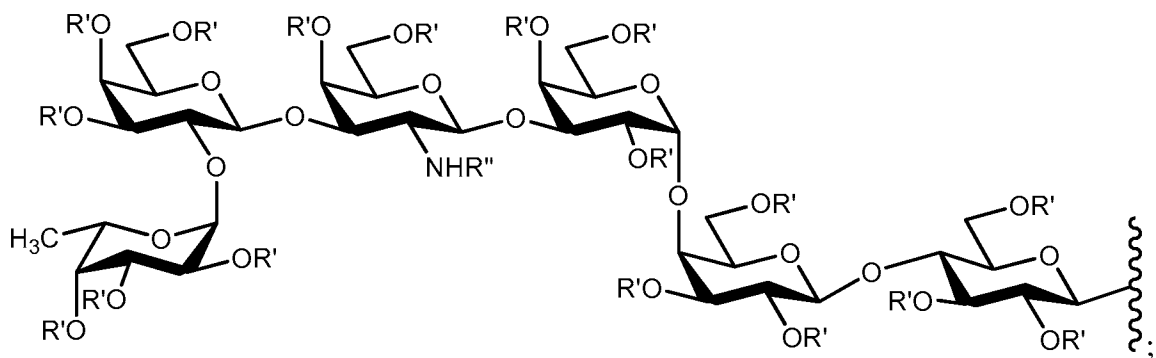
and insert the structure:



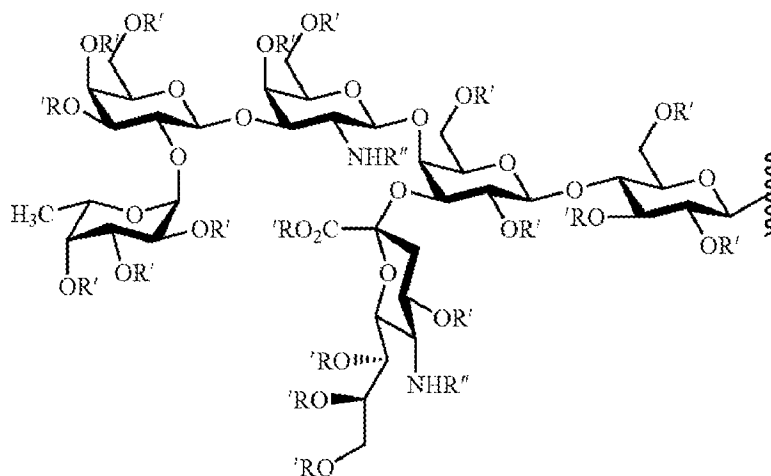
In claim 33, columns 81-82, lines 1-15, please delete the structure:



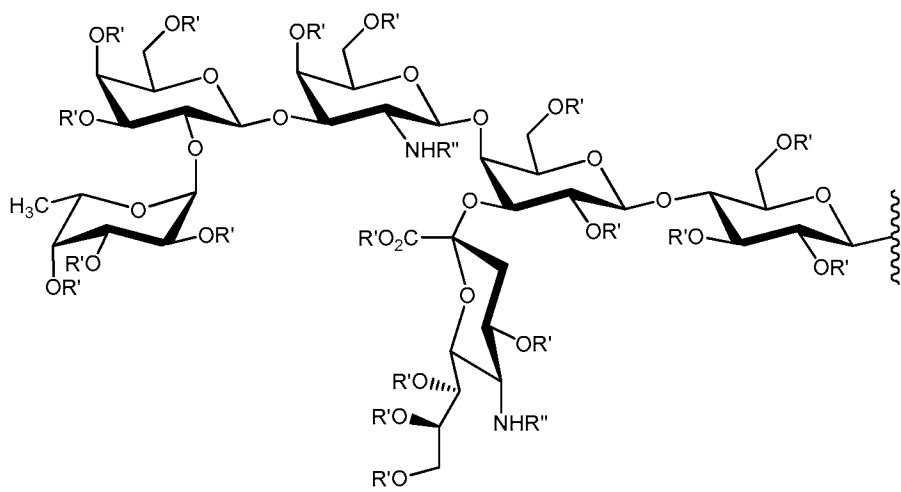
and insert the structure:



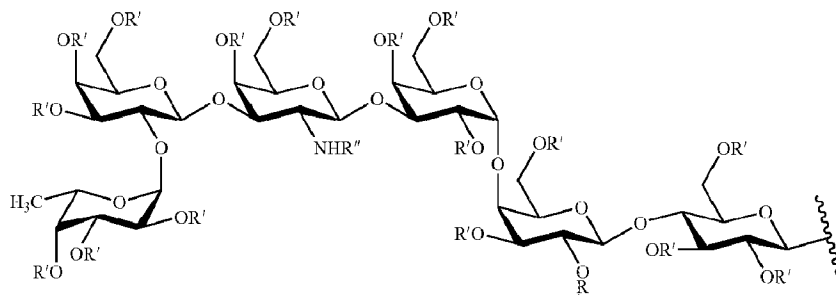
In claim 34, column 81, lines 51-65, please delete the structure:



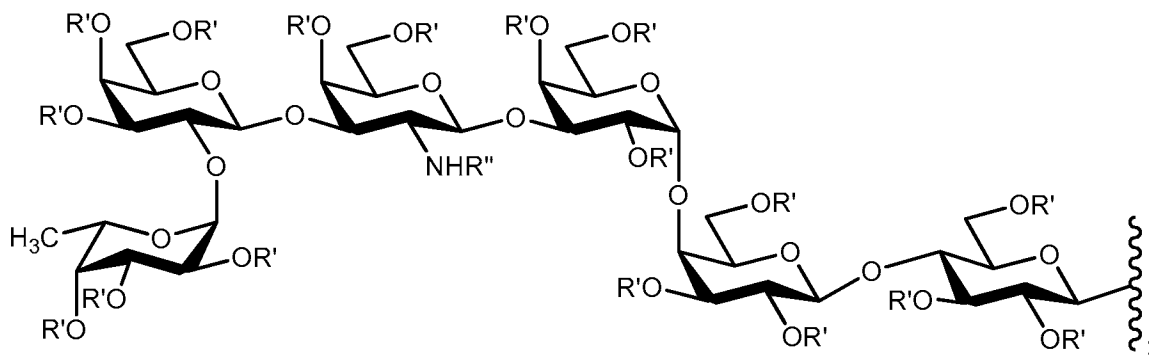
and insert the structure:



In claim 34, columns 83-84, lines 1-15, please delete the structure:



and insert the structure:



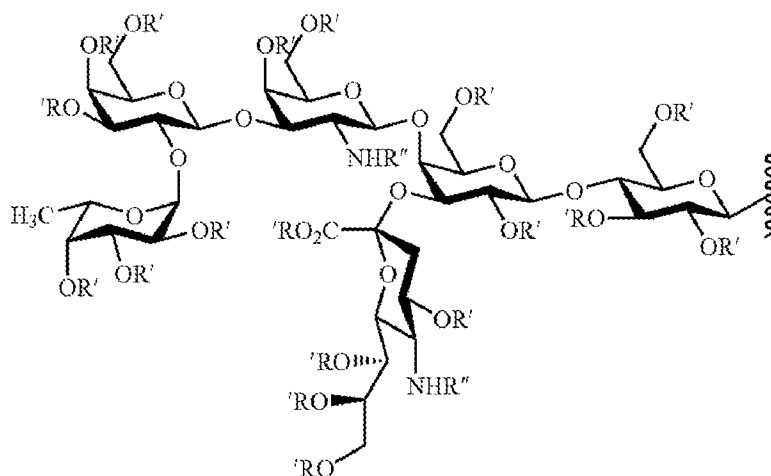
In claim 37, column 84, lines 17-21, please delete:

“wherein each occurrence of A is a carbohydrate determinant selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Lee, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:”

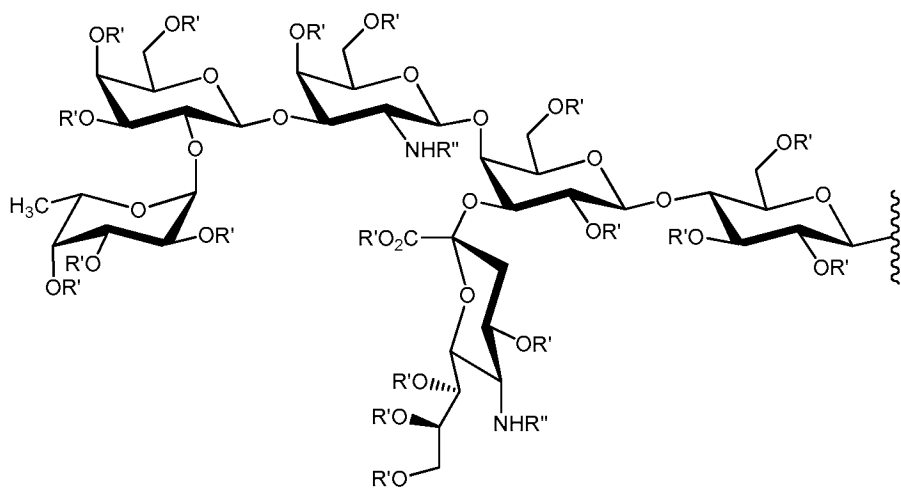
and insert:

--wherein each occurrence of A is a carbohydrate determinant selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure: --

In claim 37, column 84, lines 25-40, please delete the structure:

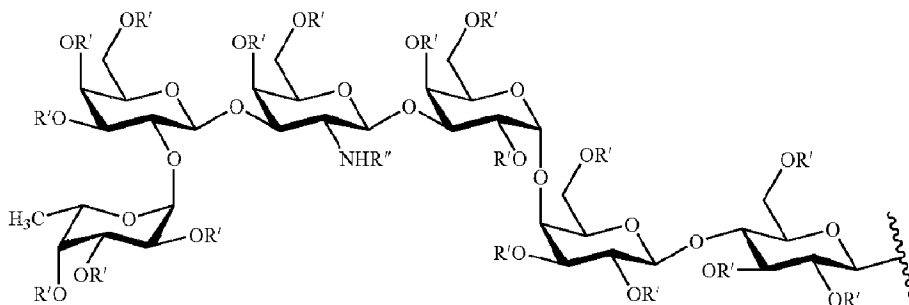


and insert the structure:

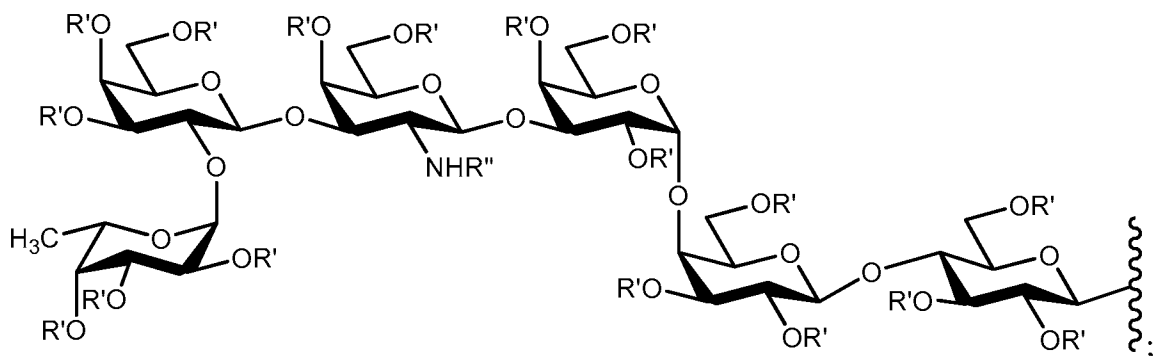


;

In claim 37, columns 83-84, lines 45-58, please delete the structure:



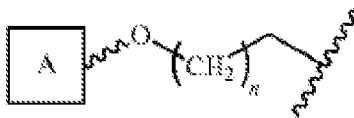
and insert the structure:



3. 37 C.F.R. § 1.322(a) states “[t]he Director may issue a certificate of correction pursuant to 35 U.S.C. § 254 to correct a mistake in a patent, incurred through the fault of the Office, which mistake is clearly disclosed in the records of the Office.” Patentee submits a request for a certificate of correction under 37 C.F.R. § 1.322(a) in light of the of the Patent Office’s generation of errors in claims 1, 5, 10, 17, 19, 21, 25, and 37 of the issued patent.

4. Patentee submits that the mistakes identified below, made by Patentee, are of typographical or clerical nature, occurred in good faith and correction of the errors would not constitute new matter or require reexamination. Patentee submits a request for correction of Patentee’s mistakes in the same certificate of correction requested above under 37 C.F.R. § 1.323 together with the payment of the \$100 fee set forth in § 1.20(a).

a) In Response to Office Action filed on August 12, 2009, Patentee inadvertently did not strike through the deleted structure, below, when amending claim 32 (original claim 91):



In the amendment, Patentee struck through the above structure in all other structure amendments including in original claim 56 (issued as claim 1, original claim 67 (issued as claim 9), original claim 72 (issued as claim 15), original claim 76 (issued as claim 21), original claim 85 (issued as claim 27), original claim 86 (issued as claim 28), original claim 96 (issued as claim 37), original claim 100 (issued as claim 20), and original claim 102 (issued as claim 41). Patentee attaches

the claim amendments in the Response filed August 12, 2009, as **Appendix I**.

b) Patentee notes that in the structures in claims 1, 5, 6, 15, 16, 17, 19, 21, 25, 32, 33, 34 and 37, all “R” should be “R” and all “OR” groups should be connected through O. The person of ordinary skill in the art would recognize these errors are of a typographical nature.

c) Patentee submits that in the Le^y subunit of the structure of claim 14, -NHR_y should be -NHAc. R_y is not defined in claim 14, or claim 1 or 13 from which claim 14 depends from. Support for the structure of Le^y is found in Figure 16.

d) To clarify certain recited chemical structures, Patentee adjusts the position of certain atom labels without breaking or forming any new chemical bonds.

5. All required documents to effect the above-listed corrections are properly submitted.

6. Patentee respectfully submits that the correct amount of fee has been paid. If, however, Patentee is mistaken, then Patentee requests a Notice be issued explaining any such fees due.

7. Please address correspondence to:

John P. Rearick, PhD
Choate, Hall & Stewart LLP
Two International Place
Boston, Massachusetts 02110

Respectfully submitted,

/John P. Rearick/
John P. Rearick, PhD
Reg. No. 64909

Dated: July 3, 2012

PATENT DEPARTMENT
CHOATE, HALL & STEWART, LLP
Two International Place
Boston, MA 02110
Tel: (617) 248-5213
Fax: (617) 502-5002

APPENDIX I

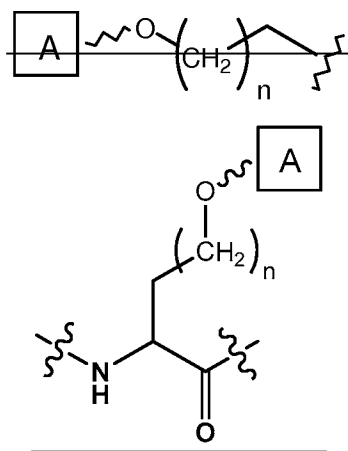
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

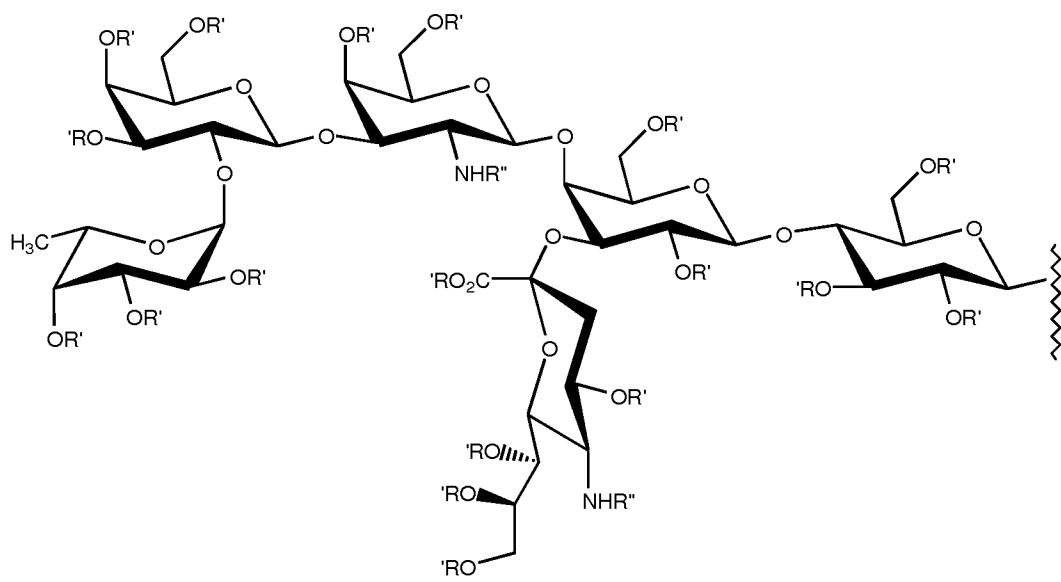
Listing of Claims

Claims 1-55: **Canceled**

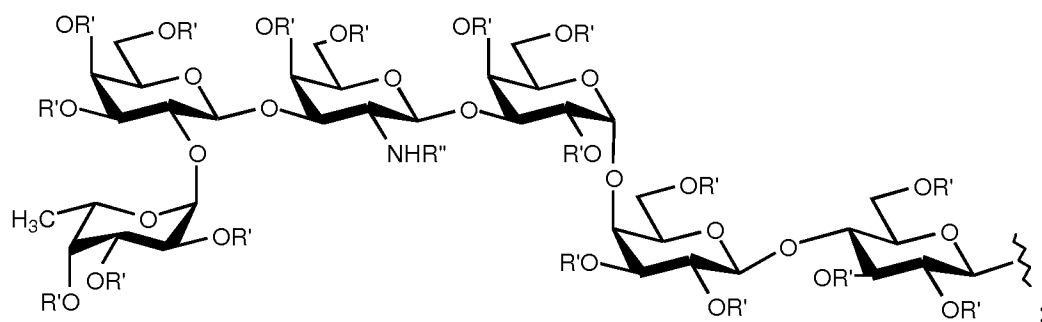
56. **(Currently Amended)** A multi-antigenic glycopeptide comprising a peptidic backbone made up of at least three amino acid residues, wherein two or more of said amino acids are independently substituted with a glycosidic moiety having the structure:



wherein each occurrence of A is independently a carbohydrate determinant selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycoporin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:



and a carbohydrate domain having the structure:



wherein each occurrence of R' is independently hydrogen or a protecting group; and

wherein R'' is hydrogen or a nitrogen protecting group;

wherein each occurrence of n is independently 1-8 and at least one occurrence of A has a different structure from other occurrences of A .

57. **(Canceled)**

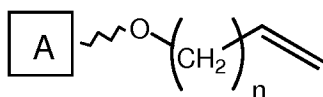
58. **(Previously Presented)** The glycopeptide of claim 56 wherein the glycopeptide is bound to an immunostimulant carrier protein, peptide or lipid.

59. **(Previously Presented)** The glycopeptide of claim 58 wherein the carrier protein is bovine serum albumin, polylysine or keyhole limpet hemocyanin.

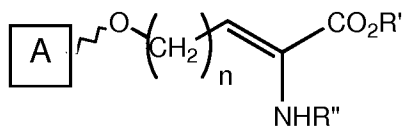
60. **(Previously Presented)** The glycopeptide of claim 58 wherein the lipid is tripalmitoyl-S-glycerylcysteinylserine.

61. **(Previously Presented)** The glycopeptide of claim 56 wherein the amino acids substituted with an n-alkyl glycosidic moiety are prepared by a process comprising steps of:

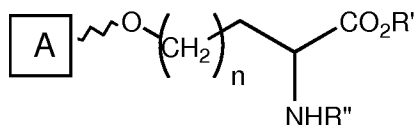
(a) providing an alkenyl glycoside having the structure:



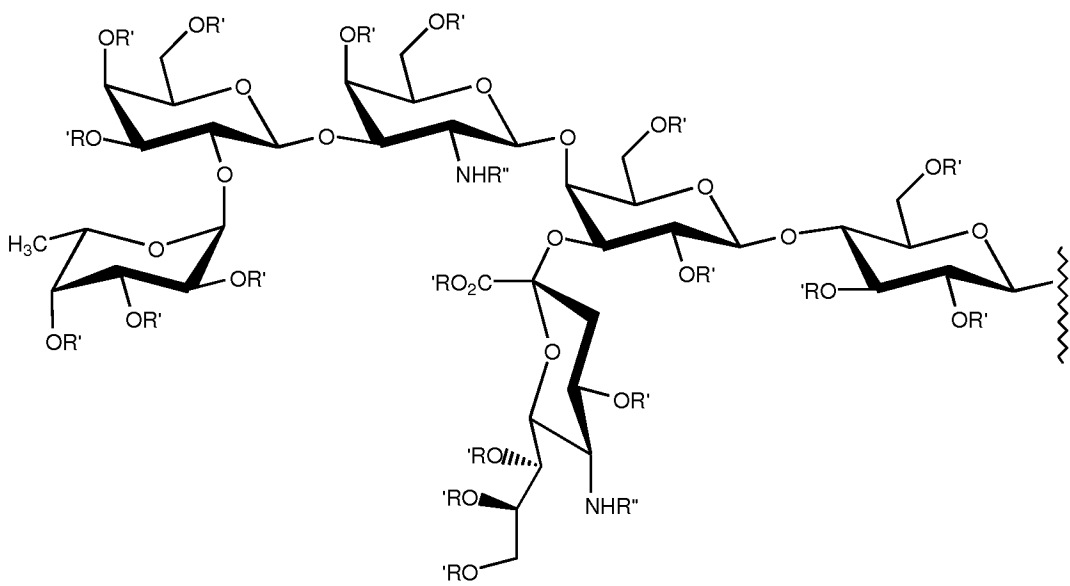
and reacting said alkenyl glycoside under suitable conditions to generate an enamide ester having the structure:



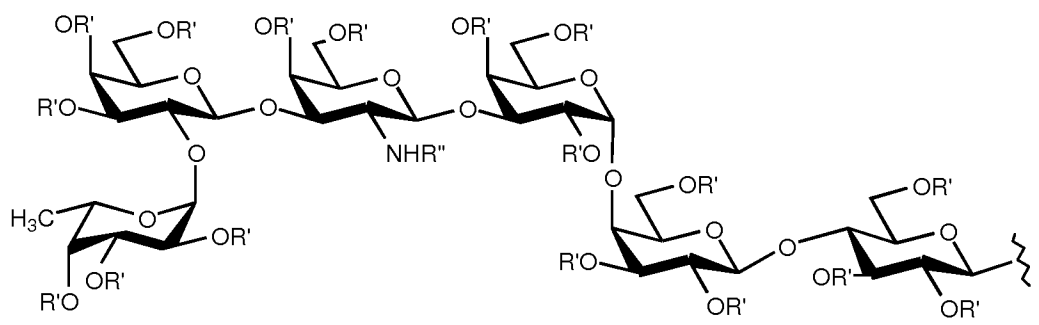
(b) reacting said enamide ester under suitable conditions to generate a glycoamino acid having the structure:



wherein, for each of the structures above, n is 1-8, wherein A is a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, TF, and protected form thereof, a carbohydrate domain having the structure:



and a carbohydrate domain having the structure:

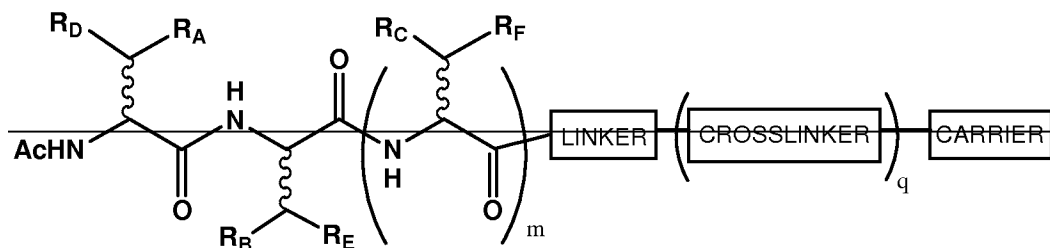


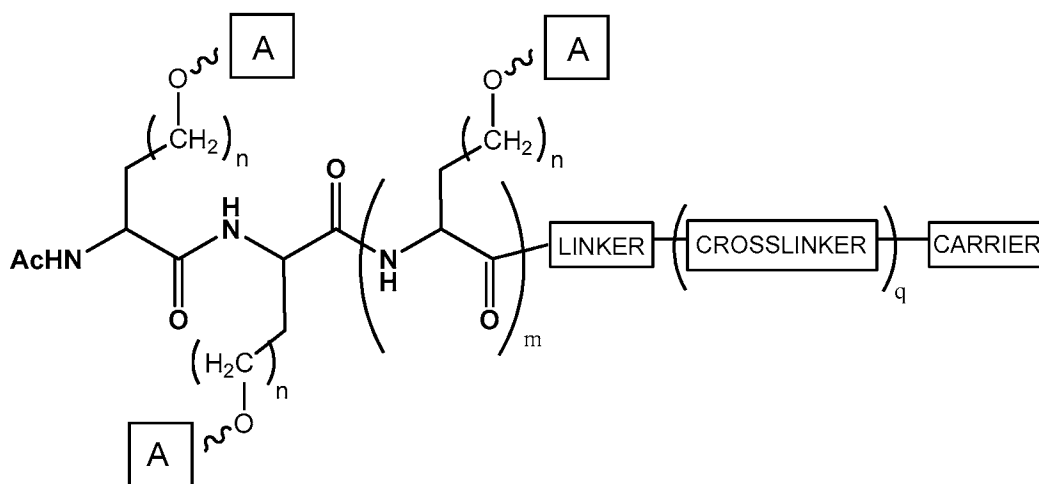
wherein each occurrence of R' is independently hydrogen or a protecting group;

and wherein R'' is hydrogen or a nitrogen protecting group;

and wherein for the glycoamino acid structure R' and R'' are each independently protecting group or hydrogen.

62. **(Currently Amended)** The glycopeptide of claim 56, wherein said glycopeptide is a construct having the structure:





wherein the linker is $-O-$, $-NR_G-$, $-NR_G(CR_HR_I)_kNR_J-$, $-NR_G(CR_HR_I)_kNR_J(C=O)(CR_HR_I)_kS-$, $-(CR_HR_I)_kNR_I-$, $-O(CR_HR_I)_kNR_J$, an oligoester fragment comprising from 2 to about 20 hydroxy acyl residues, a peptidic fragment comprising from 2 to about 20 amino acyl residues, or a linear or branched chain alkyl or aryl carboxylic ester; wherein each occurrence of k is independently 1-5; and each occurrence of R_G , R_H , R_I and R_J is independently hydrogen, a linear or branched, substituted or unsubstituted, cyclic or acyclic alkyl moiety, or a substituted or unsubstituted aryl moiety;

wherein the crosslinker is a moiety derived from a crosslinking reagent capable of conjugating a surface amine of the carrier with a terminal thiol of the linker;

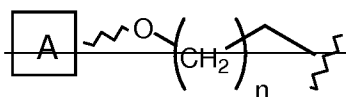
wherein the carrier is a protein or lipid;

wherein m is 1, 2 or 3;

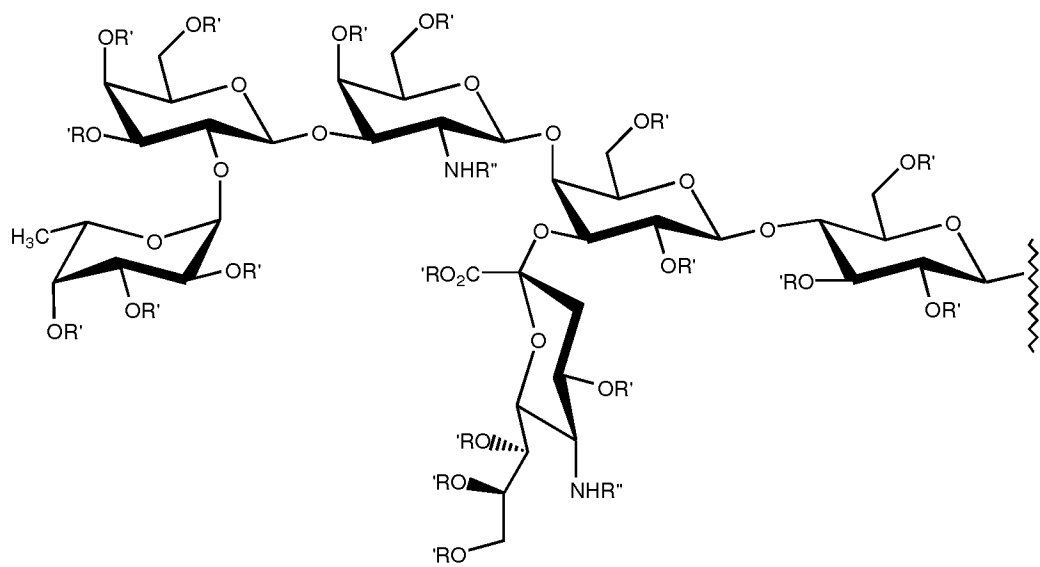
wherein q is 0 or 1;

wherein each occurrence of R_A , R_B and R_C is independently H or methyl; and

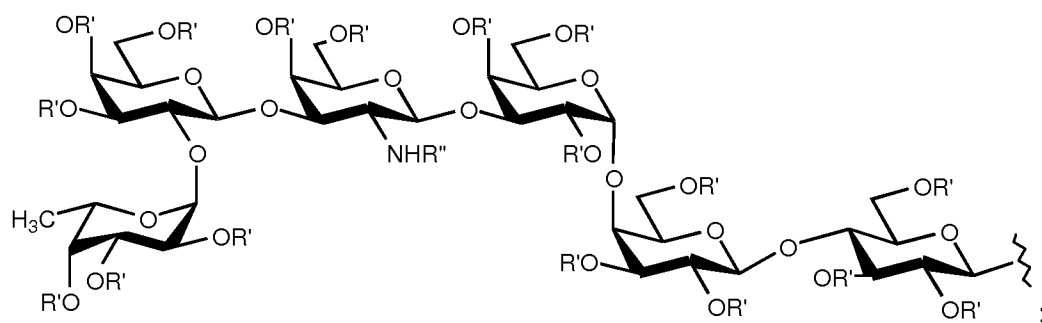
wherein each occurrence of R_D , R_E and R_F is independently an alkyl glycosidic moiety having the structure:



wherein each occurrence of A is independently selected from a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:



and a carbohydrate domain having the structure:

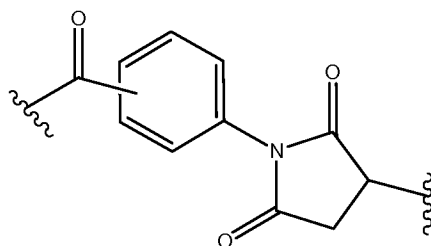


wherein each occurrence of R' is independently hydrogen or a protecting group; and
wherein R'' is hydrogen or a nitrogen protecting group;

wherein each occurrence of n is independently 0-8 1-8; and at least one occurrence of A has a different structure from other occurrences of A .

63-64. (Canceled)

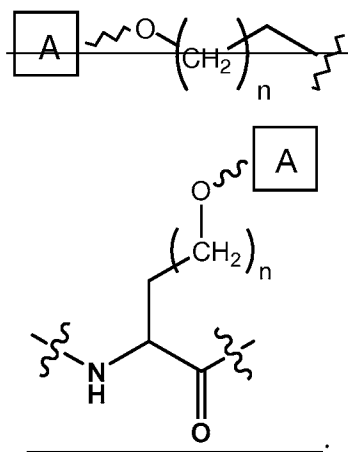
65. (Previously Presented) The construct of claim 62, wherein the crosslinker is a fragment having the structure:



whereby said structure is generated upon conjugation of maleimidobenzoic acid N-hydroxy succinimide ester with a linker.

66. **(Previously Presented)** The construct of claim 62, wherein m is 1 and the construct has three occurrences of A comprising Tn, Globo-H and Le^y.

67. **(Currently Amended)** The glycopeptide of claim 56 wherein the glycopeptide has six occurrences of a the alkyl glycosidic amino acid moiety having the structure:



68. **(Canceled)**

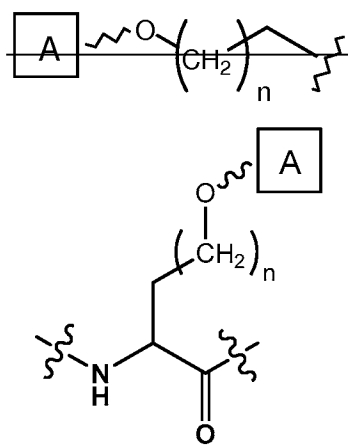
69. **(Previously Presented)** The glycopeptide of claim 56 or 67 or the construct of claim 62, wherein each occurrence of A is independently Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, or TF.

70. **(Previously Presented)** The construct of claim 62 wherein the carrier is bovine serum albumin, polylysine or keyhole limpet hemocyanin.

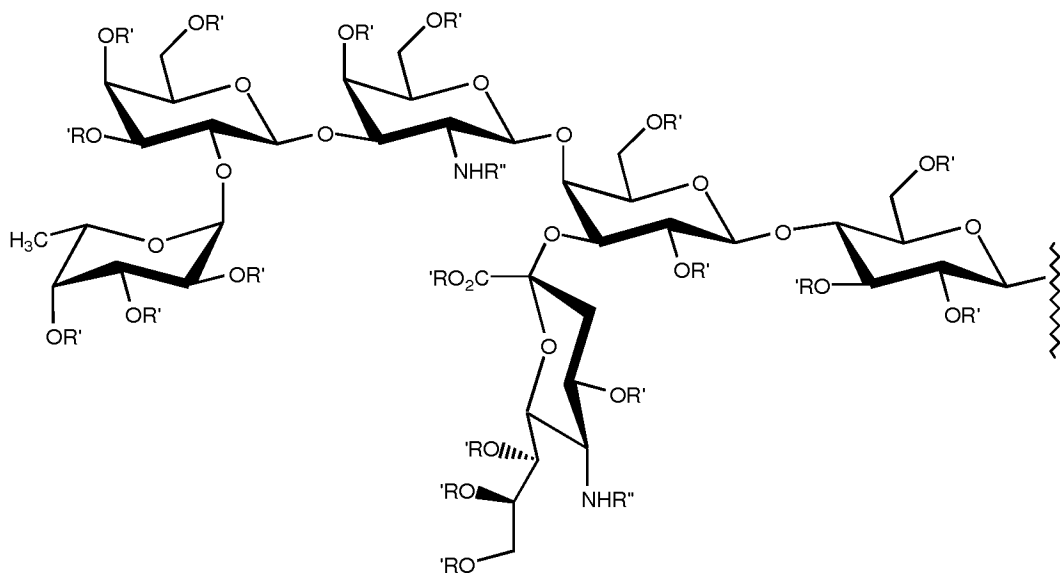
71. **(Previously Presented)** The construct of claim 62 wherein the carrier is tripalmitoyl-S-glycerylcysteinylserine.

72. **(Currently Amended)** A multi-antigenic glycopeptide comprising a peptidic backbone made up of at least three amino acid residues, wherein two or more of said

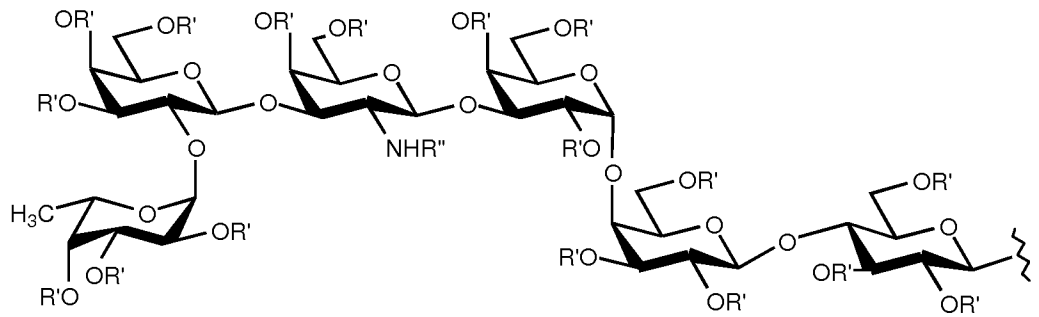
amino acids are independently substituted with a glycosidic moiety having the structure:



wherein each occurrence of A is independently a carbohydrate determinant selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:



and a carbohydrate domain having the structure:



wherein:

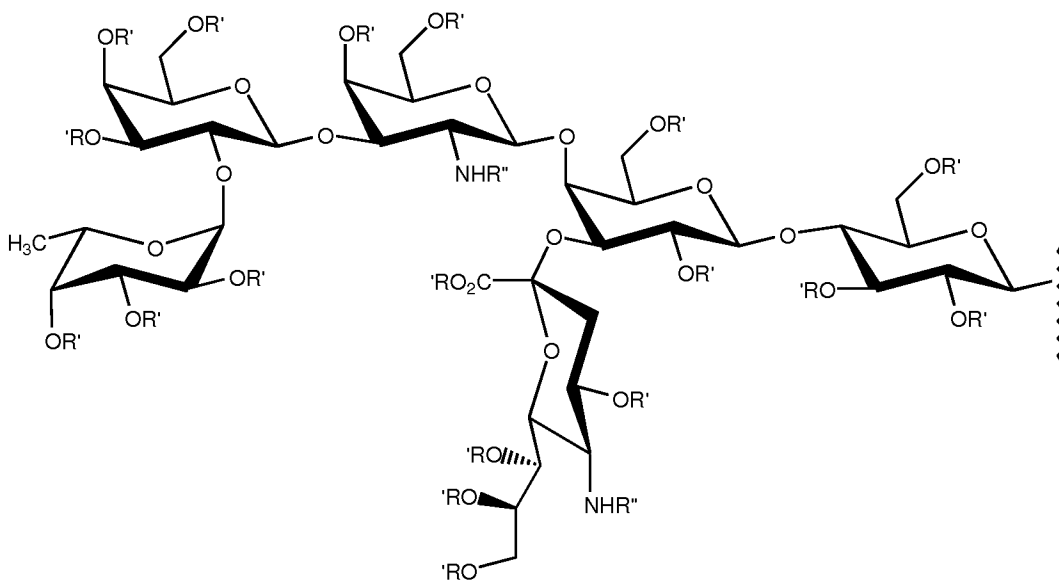
each occurrence of R' is independently hydrogen or a protecting group;

each occurrence of R'' is independently hydrogen or a nitrogen protecting group;

each occurrence of n is independently 1-8;

at least one occurrence of A has a different structure from other occurrences of A; and

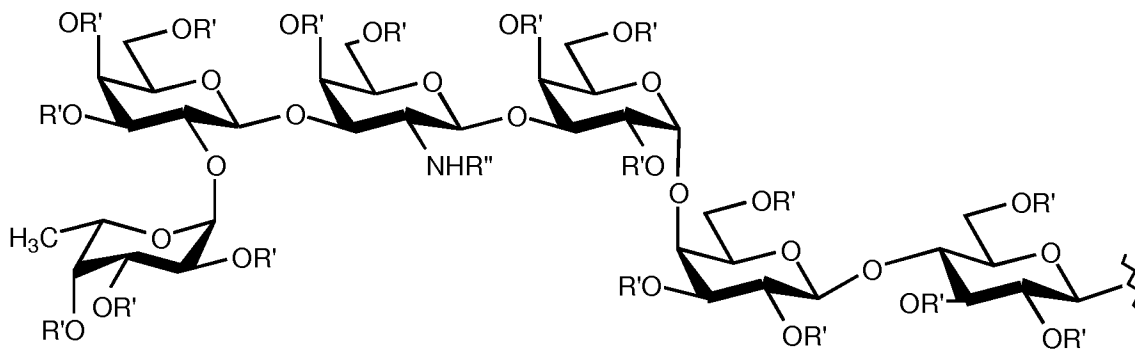
at least one occurrence of A is a carbohydrate determinant having the structure:



wherein each occurrence of R' is independently hydrogen or a protecting group;

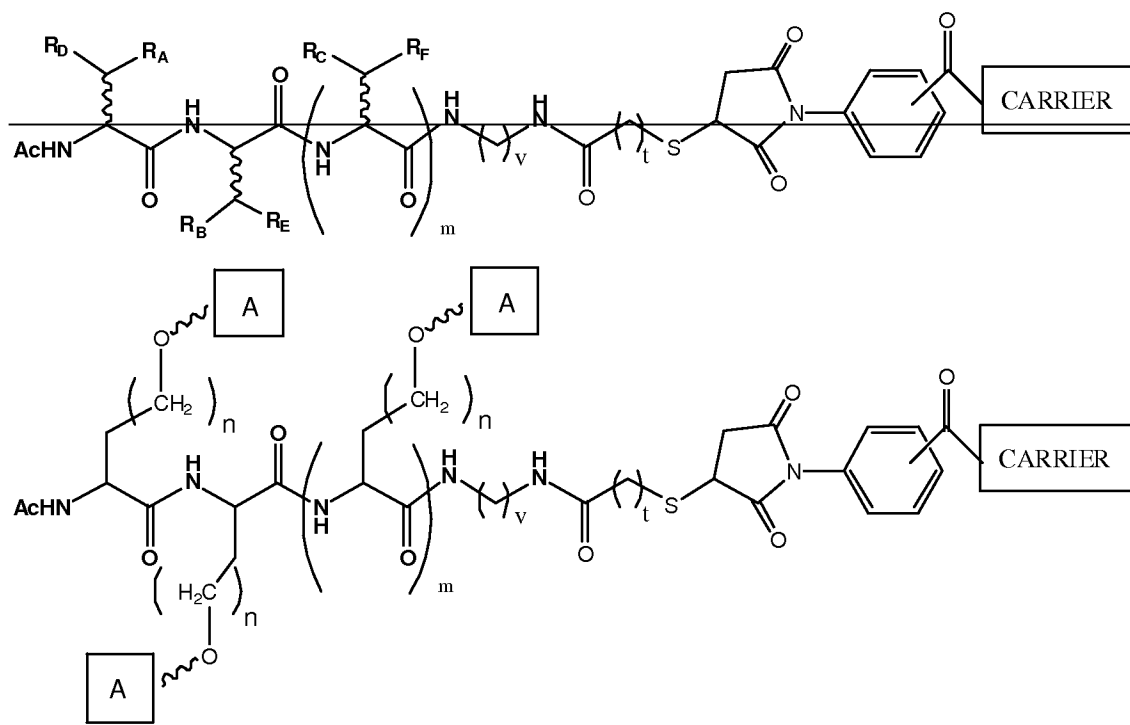
and wherein each occurrence of R'' is independently hydrogen or a nitrogen protecting group.

73. **(Previously Presented)** The glycopeptide of claim 56 or 67 or the construct of claim 62, wherein at least one occurrence of A is a carbohydrate determinant having the structure:



wherein each occurrence of R' is independently hydrogen or a protecting group;
and wherein R'' is hydrogen or a nitrogen protecting group.

74. **(Currently Amended)** The construct of claim 62 having the structure:



wherein R_A , R_B and R_C are each independently H or methyl;

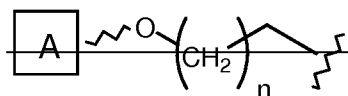
m is 1, 2 or 3;

v is 1-8;

t is 1-8; and

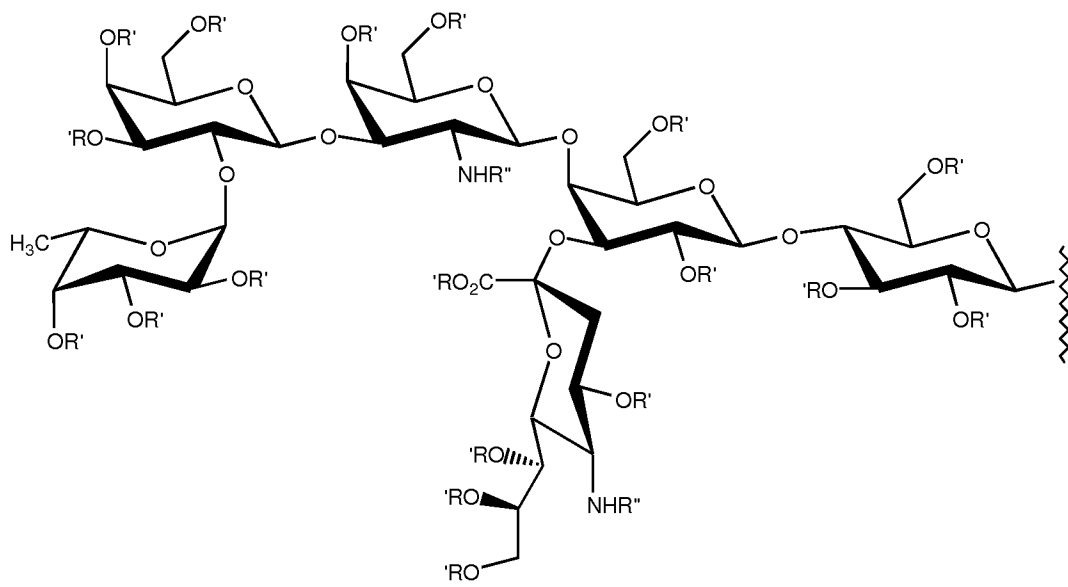
the carrier is a protein;

~~wherein each occurrence of R_D , R_E and R_F is independently an alkyl glycosidic moiety having the structure:~~

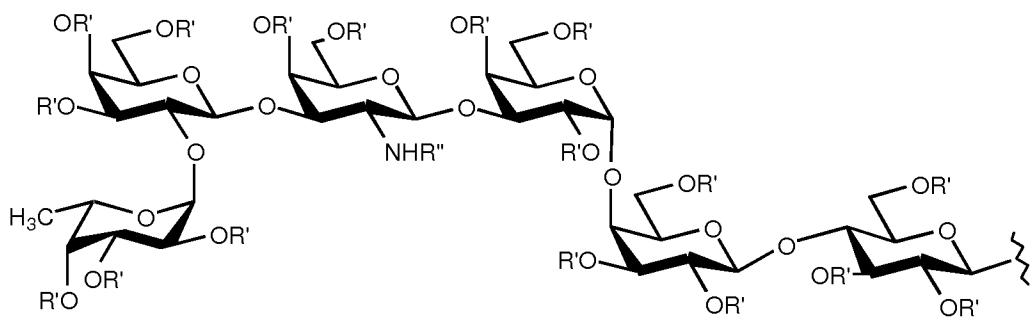


wherein n is 0-8 1-8;

each occurrence of A is independently a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, or TF, a carbohydrate domain having the structure:



and a carbohydrate domain having the structure:

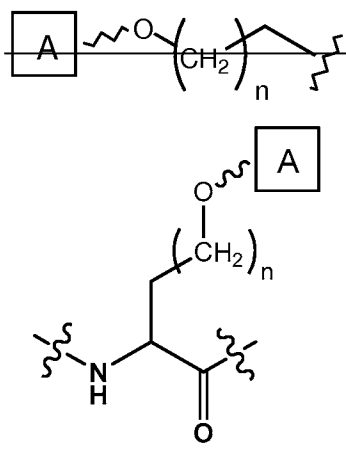


wherein each occurrence of R' is independently hydrogen or a protecting group;
and wherein R'' is hydrogen or a nitrogen protecting group
and whereby at least one occurrence of A has a different structure from other occurrences of A.

75. **(Previously Presented)** The construct of claim 74, wherein the protein is bovine serum albumin, polylysine or keyhole limpet hemocyanin.

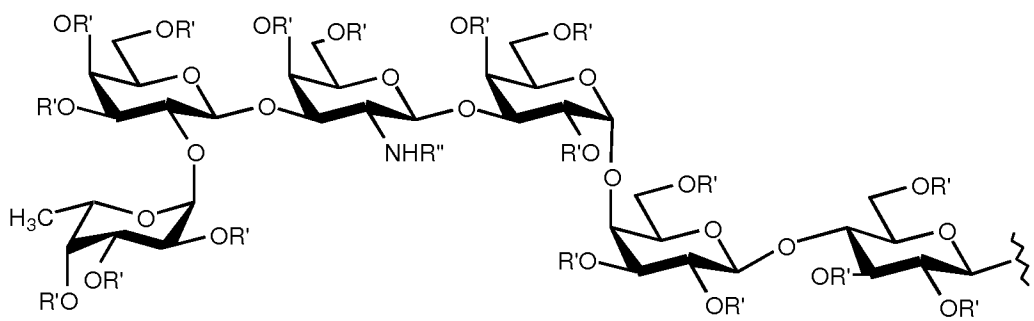
76. **(Currently Amended)** A pharmaceutical composition comprising:

a multi-antigenic glycopeptide comprising a peptidic backbone made up of at least three amino acid residues, wherein two or more of said amino acids are independently substituted with a glycosidic moiety having the structure:



The diagram shows a complex branched oligosaccharide structure. It features several pyranose rings in chair conformations. The main chain consists of four pyranose units linked by 1→4 glycosidic bonds. A fifth pyranose unit is attached to the third unit of this chain via a 1→6 glycosidic bond. Various substituents are attached to the rings, including OR' groups, NHR'' groups, and an RO₂C group. A wavy line on the rightmost pyranose unit indicates a connection to a larger polymer or structure. Stereochemistry is indicated with wedges and dashes for some substituents.

and a carbohydrate domain having the structure:



wherein each occurrence of R' is independently hydrogen or a protecting group;

and wherein R'' is hydrogen or a nitrogen protecting group;

wherein each occurrence of n is independently 1-8 and at least one occurrence of A has a different structure from other occurrences of A.

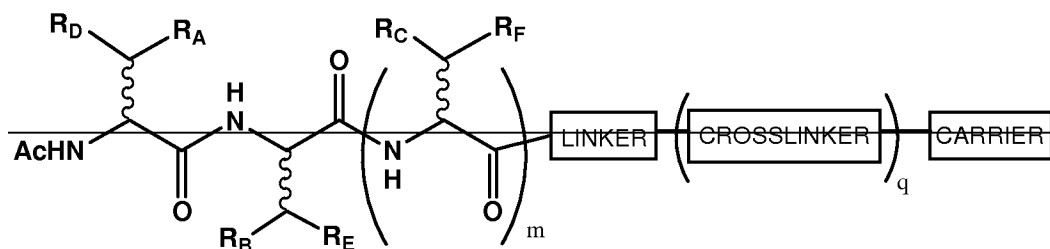
77. **(Canceled)**

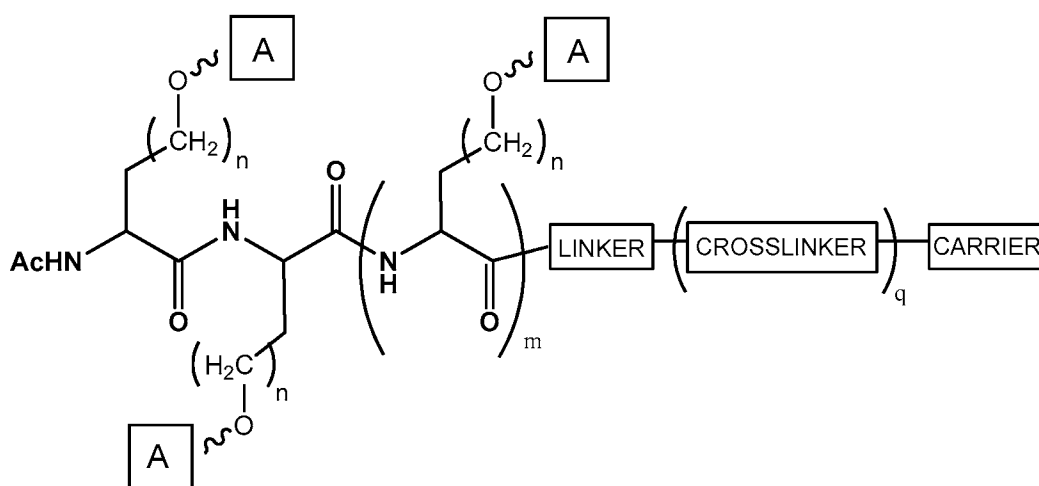
78. **(Previously Presented)** The pharmaceutical composition of claim 76 wherein the glycopeptide is bound to an immunostimulant carrier protein or lipid.

79. **(Previously Presented)** The pharmaceutical composition of claim 78 wherein the carrier protein is bovine serum albumin, polylysine or keyhole limpet hemocyanin.

80. **(Previously Presented)** The pharmaceutical composition of claim 78 wherein the lipid is tripalmitoyl-S-glycerylcysteinylserine.

81. **(Currently Amended)** The pharmaceutical composition of claim 76, wherein said glycopeptide is a construct having the structure:





wherein the linker is $-O-$, $-NR_G-$, $-NR_G(CR_HR_I)_kNR_J-$, $-NR_G(CR_HR_I)_kNR_J(C=O)(CR_HR_I)_kS-$, $-(CR_HR_I)_kNR_I-$, $-O(CR_HR_I)_kNR_J$, an oligoester fragment comprising from 2 to about 20 hydroxy acyl residues, a peptidic fragment comprising from 2 to about 20 amino acyl residues, or a linear or branched chain alkyl or aryl carboxylic ester; wherein each occurrence of k is independently 1-5; and each occurrence of R_G , R_H , R_I and R_J is independently hydrogen, a linear or branched, substituted or unsubstituted, cyclic or acyclic alkyl moiety, or a substituted or unsubstituted aryl moiety;

wherein the crosslinker is a moiety derived from a crosslinking reagent capable of conjugating a surface amine of the carrier with a terminal thiol of the linker;

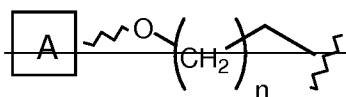
wherein the carrier is a protein or lipid;

wherein m is 1, 2 or 3;

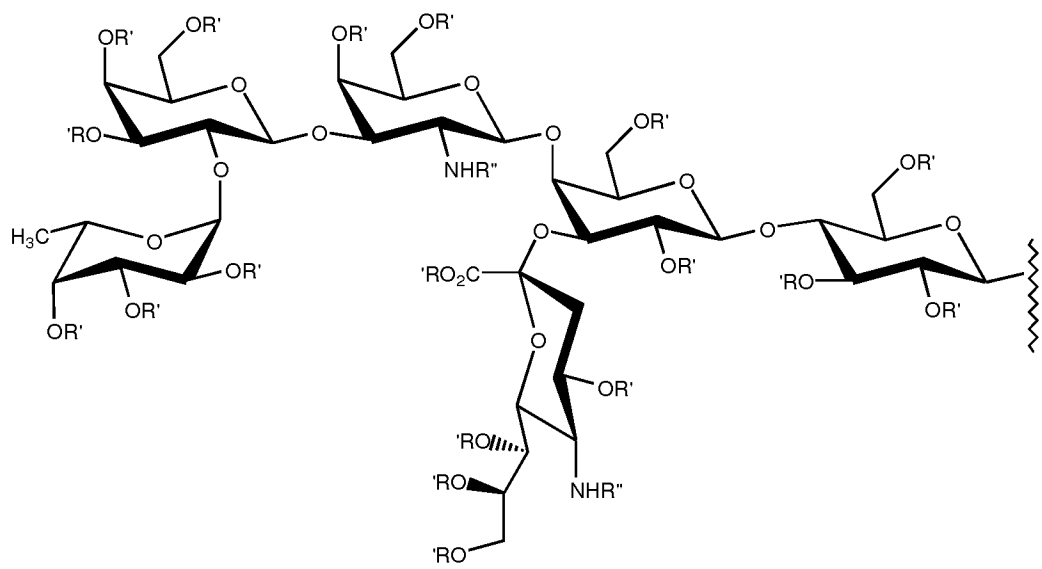
wherein q is 0 or 1;

wherein each occurrence of R_A , R_B and R_C is independently H or methyl; and

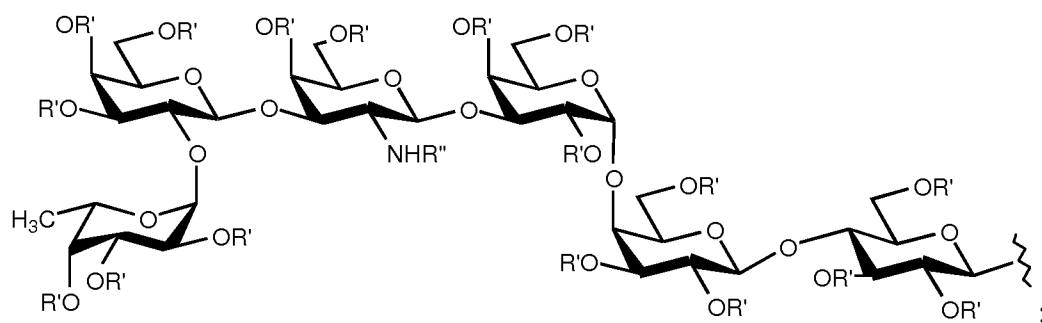
wherein each occurrence of R_D , R_E and R_F is independently an alkyl glycosidic moiety having the structure:



wherein each occurrence of A is independently selected from a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y , N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:



and a carbohydrate domain having the structure:

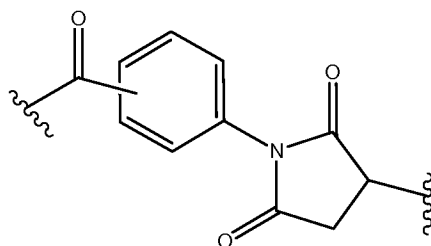


wherein each occurrence of R' is independently hydrogen or a protecting group; and
wherein R'' is hydrogen or a nitrogen protecting group;

wherein each occurrence of n is independently 0-8 1-8; and at least one occurrence of A has a different structure from other occurrences of A.

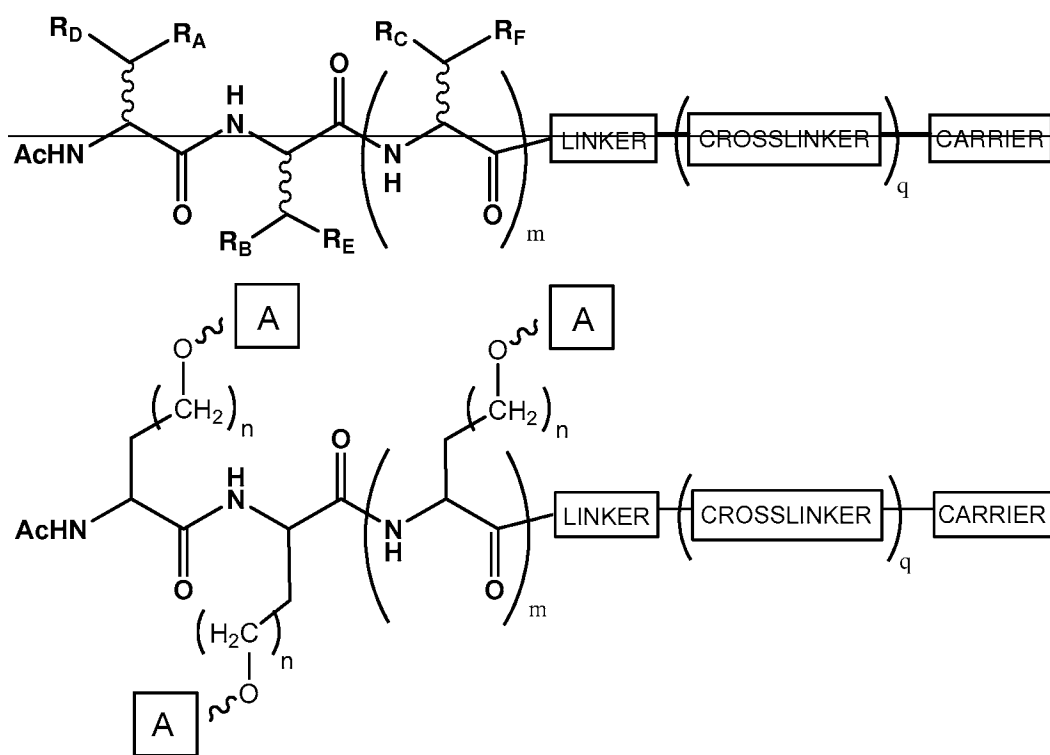
82-83. (Canceled)

84. (Previously Presented) The pharmaceutical composition of claim 81, wherein the crosslinker is a fragment having the structure:



whereby said structure is generated upon conjugation of maleimidobenzoic acid N-hydroxy succinimide ester with a linker.

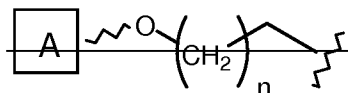
85. **(Currently Amended)** A pharmaceutical composition comprising:
 one or more immunological adjuvants and/or a pharmaceutically suitable carrier;
 and
 a multi-antigenic glycopeptide comprising a peptidic backbone made up of at least three amino acid residues;
 wherein said glycopeptide is a construct having the structure:



wherein:

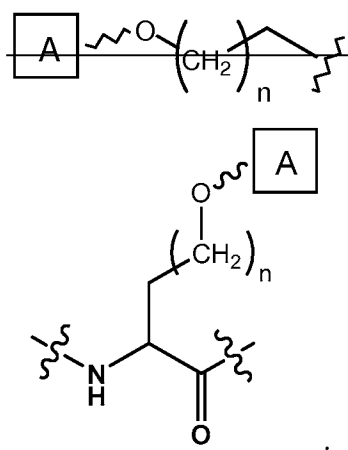
the linker is $-\text{O}-$, $-\text{NR}_G-$, $-\text{NR}_G(\text{CR}_H\text{R}_I)_k\text{NR}_J-$, $-\text{NR}_G(\text{CR}_H\text{R}_I)_k\text{NR}_J(\text{C}=\text{O})(\text{CR}_H\text{R}_I)_k\text{S}-$, $-(\text{CR}_H\text{R}_I)_k\text{NR}_I-$, $-\text{O}(\text{CR}_H\text{R}_I)_k\text{NR}_J$, an oligoester fragment comprising from 2 to about 20 hydroxy acyl residues, a peptidic fragment comprising from 2 to about 20 amino acyl residues, or a linear or branched chain alkyl or aryl carboxylic ester; wherein each occurrence of k is independently 1-5; and each occurrence of R_G , R_H , R_I and R_J is independently hydrogen, a linear or branched, substituted or

unsubstituted, cyclic or acyclic alkyl moiety, or a substituted or unsubstituted aryl moiety;
the crosslinker is a moiety derived from a crosslinking reagent capable of
conjugating a surface amine of the carrier with a terminal thiol of the linker;
the carrier is a protein or lipid;
m is 1;
q is 0 or 1;
~~each occurrence of R_A, R_B and R_C is independently H or methyl; and~~
~~each occurrence of R_D, R_E and R_F is independently an alkyl glycosidic moiety having~~
~~the structure:~~



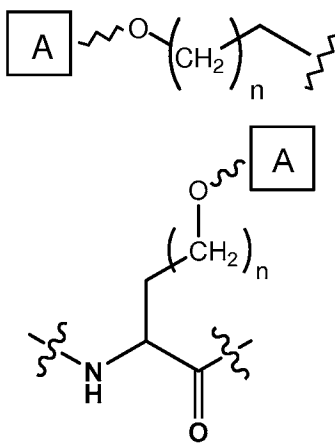
wherein:
each occurrence of n is independently ~~0-8~~ 1-8;
at least one occurrence of A has a different structure from other occurrences of A; and
the construct has three occurrences of A comprising Tn, Globo-H and Le^y.

86. **(Currently Amended)** The pharmaceutical composition of claim 76, wherein the glycopeptide has six occurrences of ~~a the~~ alkyl glycosidic amino acid ~~moiety~~ having the structure:

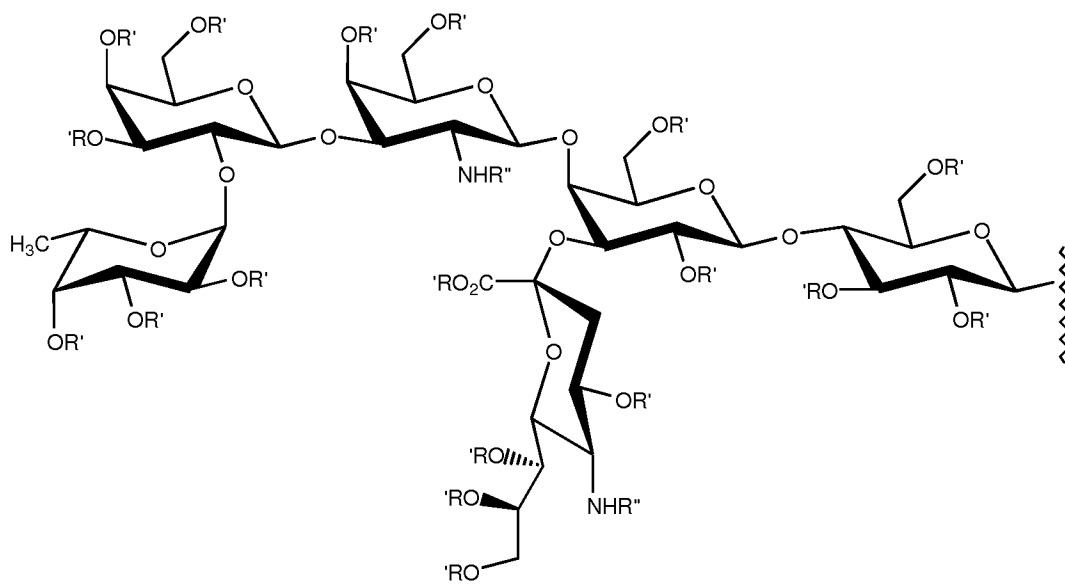


87. **(Canceled)**

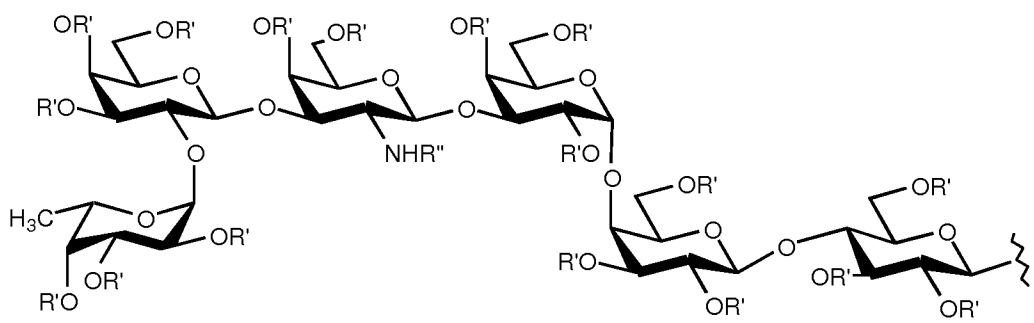
88. **(Previously Presented)** The pharmaceutical composition of claim 76, 81 or 86, wherein each occurrence of A is independently Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, or TF.
89. **(Previously Presented)** The pharmaceutical composition of claim 81 or 86 wherein the carrier is bovine serum albumin, polylysine or keyhole limpet hemocyanin.
90. **(Previously Presented)** The pharmaceutical composition of claim 81 or 86 wherein the carrier is tripalmitoyl-S-glycerylcysteinylserine.
91. **(Currently Amended)** A pharmaceutical composition comprising:
 one or more immunological adjuvants and/or a pharmaceutically suitable carrier;
 and
 a multi-antigenic glycopeptide comprising a peptidic backbone made up of at least three amino acid residues, wherein two or more of said amino acids are ~~is~~ independently substituted with a glycosidic moiety having the structure:



wherein each occurrence of A is a carbohydrate determinant selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:



and a carbohydrate domain having the structure:

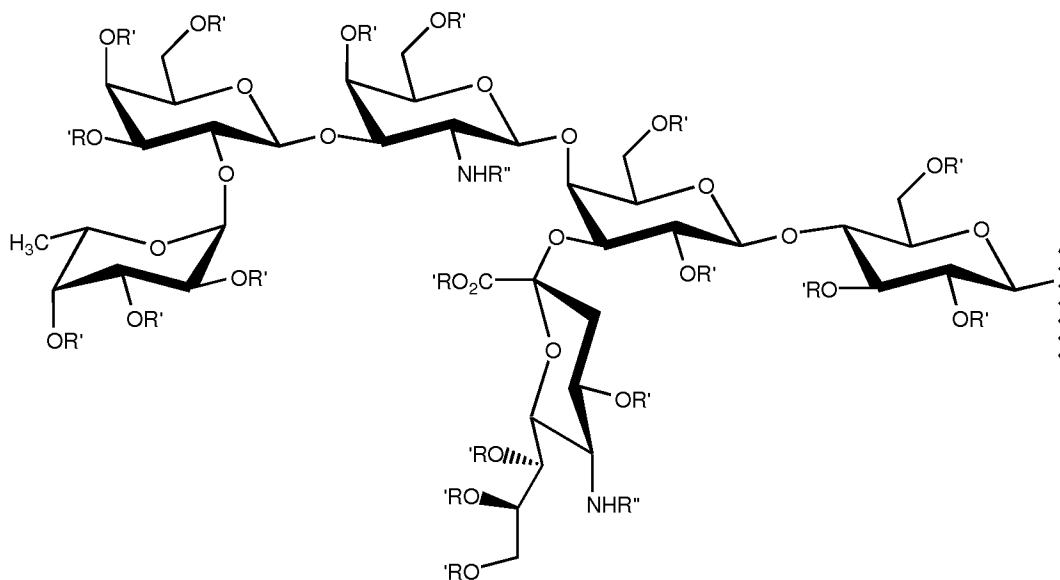


wherein each occurrence of R' is independently hydrogen or a protecting group;

and wherein R'' is hydrogen or a nitrogen protecting group;

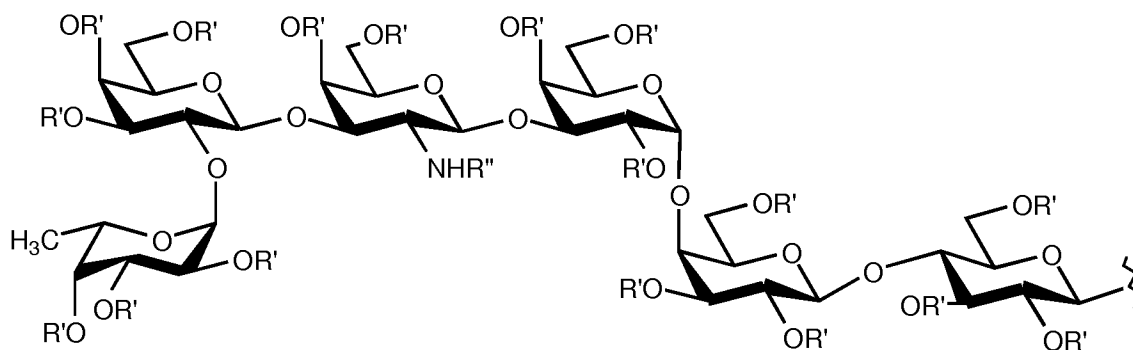
wherein each occurrence of n is independently 1-8 and at least one occurrence of A has a different structure from other occurrences of A ;

wherein at least one occurrence of A is a carbohydrate determinant having the structure:



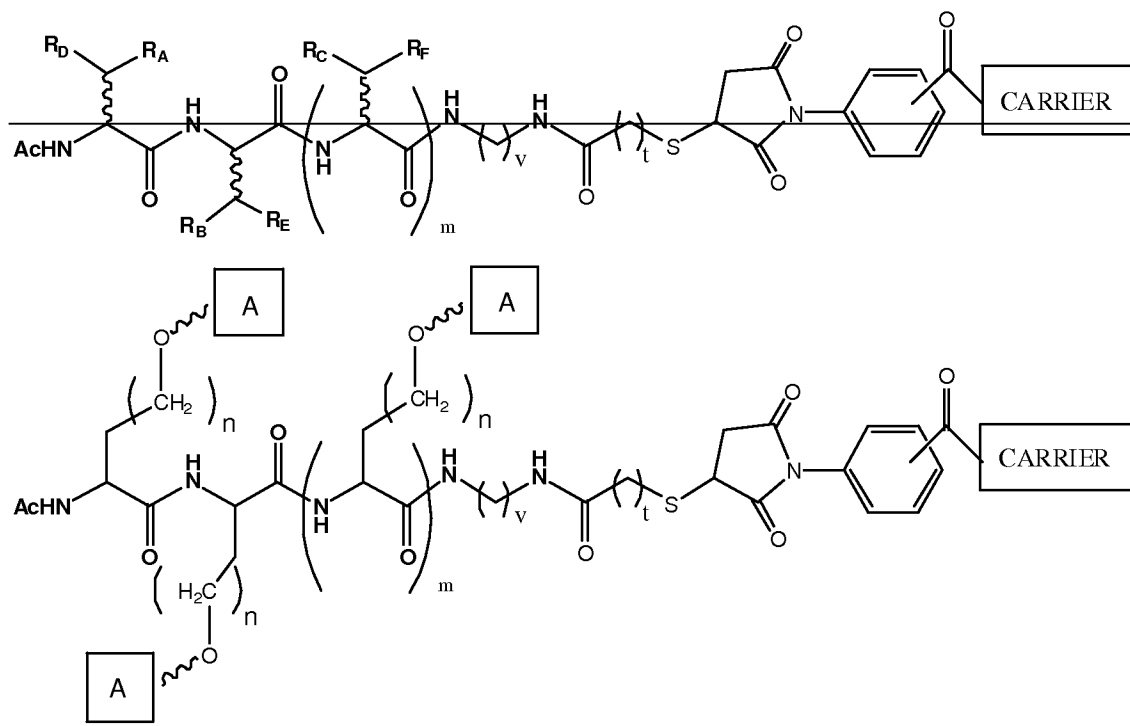
wherein each occurrence of R' is independently hydrogen or a protecting group;
and wherein each occurrence of R'' is independently hydrogen or a nitrogen protecting group.

92. **(Previously Presented)** The pharmaceutical composition of claim 76, 81 or 86, wherein at least one occurrence of A is a carbohydrate determinant having the structure:



wherein each occurrence of R' is independently hydrogen or a protecting group;
and wherein R'' is hydrogen or a nitrogen protecting group.

93. **(Currently Amended)** The pharmaceutical composition of claim 81, wherein the construct has the structure:



wherein R_A , R_B and R_C are each independently H or methyl;

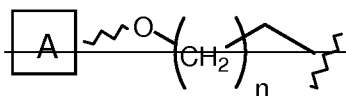
m is 1, 2 or 3;

v is 1-8;

t is 1-8; and

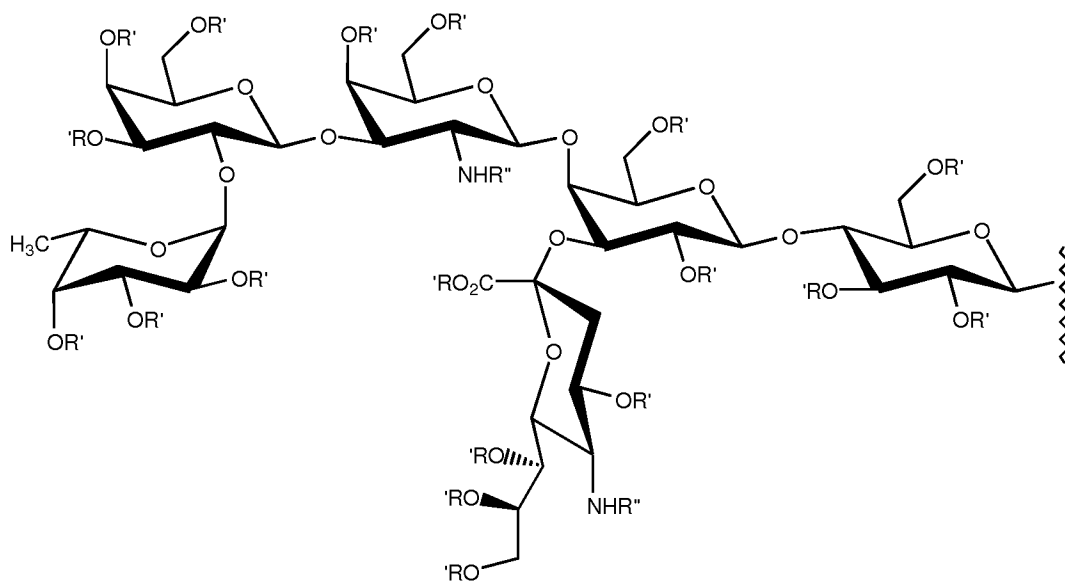
the carrier is a protein;

~~wherein each occurrence of R_D , R_E and R_F is independently an alkyl glycosidic moiety having the structure:~~

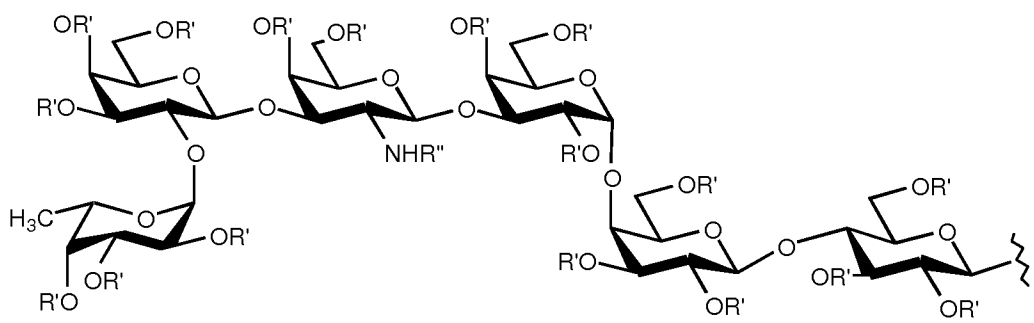


wherein n is ~~0-8~~ 1-8;

each occurrence of A is independently a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y , N3, Tn, 2,6-STn, (2,3)ST, or TF, a carbohydrate domain having the structure:



and a carbohydrate domain having the structure:



wherein each occurrence of R' is independently hydrogen or a protecting group;

and wherein R'' is hydrogen or a nitrogen protecting group

and whereby at least one occurrence of A has a different structure from other occurrences of A.

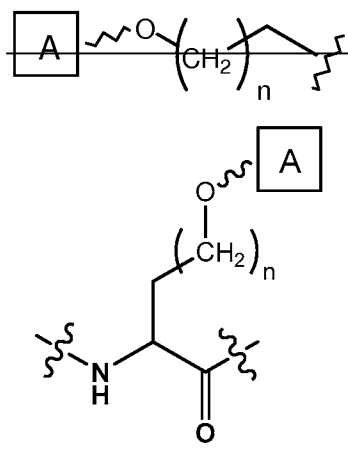
94. **(Previously Presented)** The pharmaceutical composition of claim 93, wherein the protein is bovine serum albumin, polylysine or keyhole limpet hemocyanin.

95. **(Previously Presented)** The pharmaceutical composition of claim 76 wherein at least one of said one or more immunological adjuvants is a saponin adjuvant.

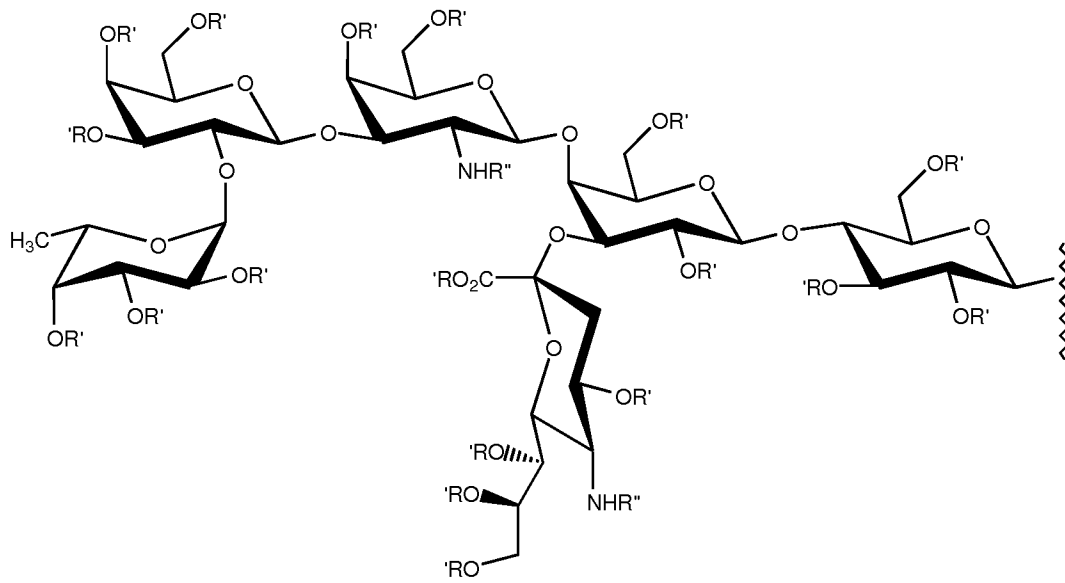
96. **(Currently Amended)** A pharmaceutical composition comprising:

one or more immunological adjuvants and/or a pharmaceutically suitable carrier;
and

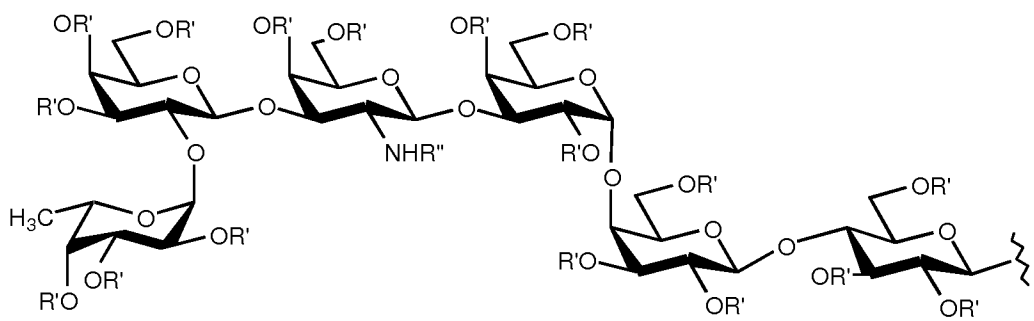
a multi-antigenic glycopeptide comprising a peptidic backbone made up of at least three amino acid residues, wherein two or more of said amino acids are ~~independently substituted with a glycosidic moiety having the structure:~~



wherein each occurrence of A is a carbohydrate determinant selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:



and a carbohydrate domain having the structure:



wherein each occurrence of R' is independently hydrogen or a protecting group;

and wherein R'' is hydrogen or a nitrogen protecting group;

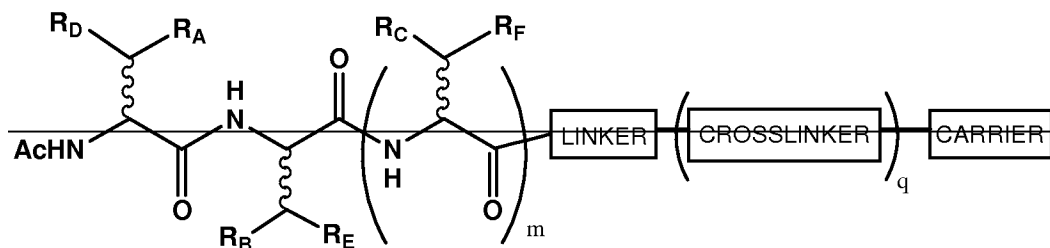
wherein each occurrence of n is independently 1-8 and at least one occurrence of A has a different structure from other occurrences of A;

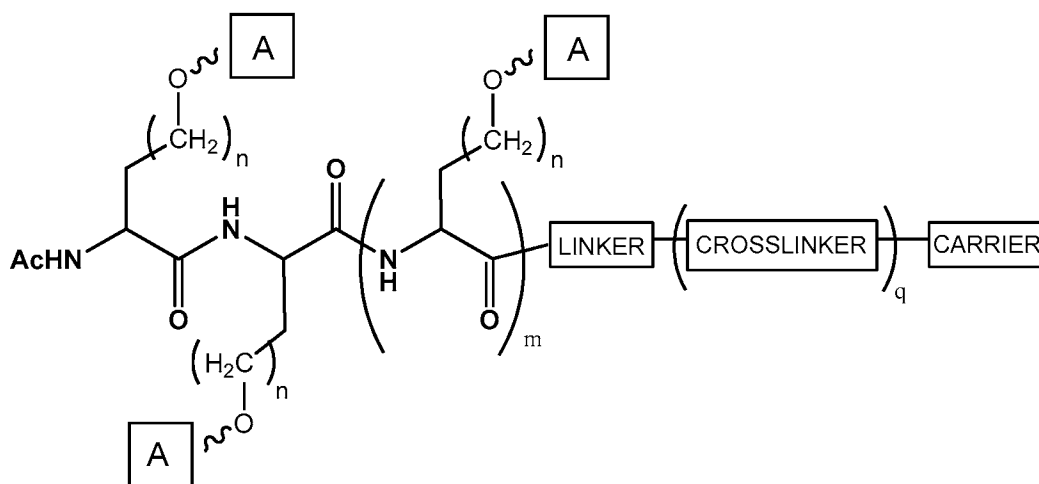
wherein at least one of said one or more immunological adjuvants is saponin adjuvant GPI-0100.

97. **(Previously Presented)** The pharmaceutical composition of claim 76 wherein at least one of said one or more immunological adjuvants is bacteria or liposomes.

98. **(Previously Presented)** The pharmaceutical composition of claim 97 wherein the immunological adjuvant is Salmonella minnesota cells, bacille Calmette-Guerin or QS21.

99. **(Currently Amended)** The glycopeptide of claim 72, wherein said glycopeptide is a construct having the structure:





wherein:

the linker is $-O-$, $-NR_G-$, $-NR_G(CR_HR_I)_kNR_J-$,

$-NR_G(CR_HR_I)_kNR_J(C=O)(CR_HR_I)_kS-$, $-(CR_HR_J)_kNR_I-$, $-O(CR_HR_I)_kNR_J$, an oligoester fragment comprising from 2 to about 20 hydroxy acyl residues, a peptidic fragment comprising from 2 to about 20 amino acyl residues, or a linear or branched chain alkyl or aryl carboxylic ester; wherein each occurrence of k is independently 1-5; and each occurrence of R_G , R_H , R_I and R_J is independently hydrogen, a linear or branched, substituted or unsubstituted, cyclic or acyclic alkyl moiety, or a substituted or unsubstituted aryl moiety;

the crosslinker is a moiety derived from a crosslinking reagent capable of

conjugating a surface amine of the carrier with a terminal thiol of the linker;

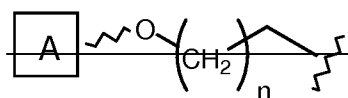
the carrier is a protein or lipid;

m is 1, 2 or 3;

q is 0 or 1;

~~each occurrence of R_A , R_B and R_C is independently H or methyl; and~~

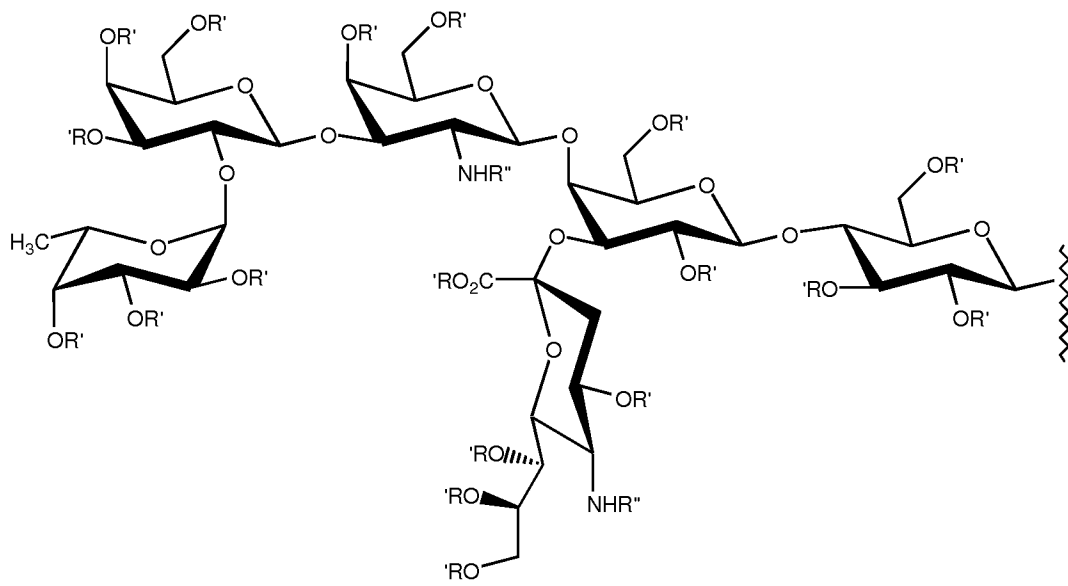
~~each occurrence of R_D , R_E and R_F is independently an alkyl glycosidic moiety having the structure:~~



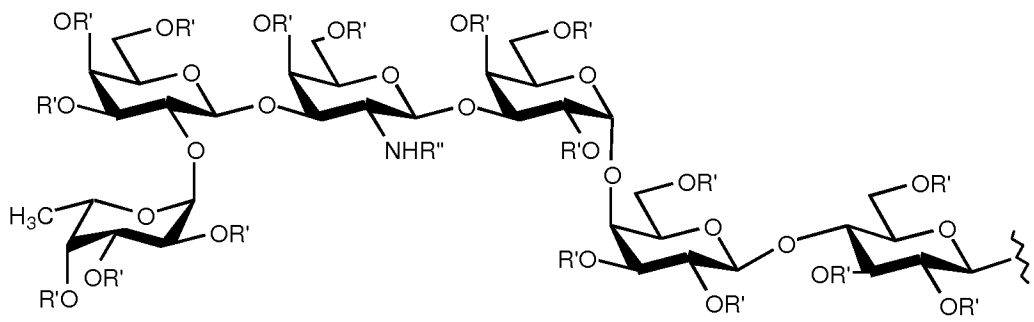
wherein each occurrence of A is independently selected from a carbohydrate

domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1,

glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:



and a carbohydrate domain having the structure:

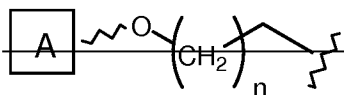


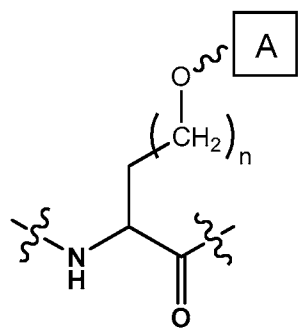
wherein each occurrence of R' is independently hydrogen or a protecting group;

and wherein R'' is hydrogen or a nitrogen protecting group;

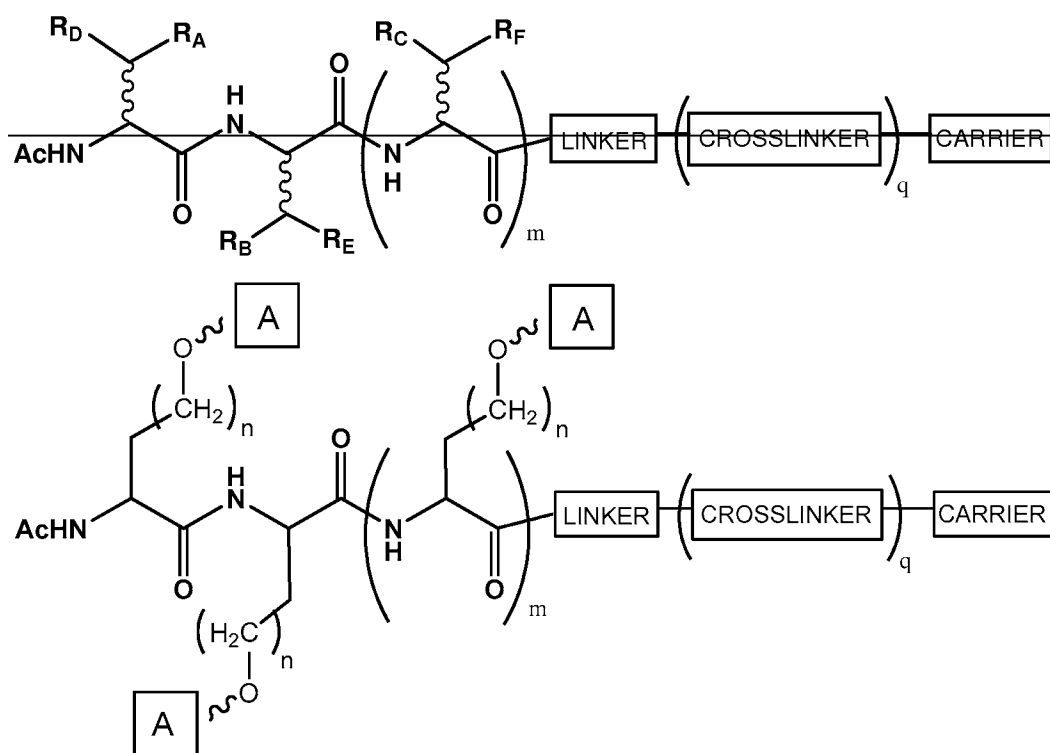
wherein each occurrence of n is independently 0-8 1-8; and at least one occurrence of A has a different structure from other occurrences of A.

100. **(Currently Amended)** The glycopeptide of claim 72, wherein the glycopeptide has six occurrences of ~~a the alkyl glycosidic amino acid moiety~~ having the structure:





101. **(Currently Amended)** The pharmaceutical composition of claim 91, wherein said glycopeptide is a construct having the structure:



wherein the linker is -O-, -NR_G-, -NR_G(CR_HR_I)_kNR_J-,

-NR_G(CR_HR_I)_kNR_J(C=O)(CR_HR_I)_kS-, -(CR_HR_J)_kNR_I-, -O(CR_HR_I)_kNR_J, an

oligoester fragment comprising from 2 to about 20 hydroxy acyl residues, a

peptidic fragment comprising from 2 to about 20 amino acyl residues, or a linear

or branched chain alkyl or aryl carboxylic ester; wherein each occurrence of k is

independently 1-5; and each occurrence of R_G, R_H, R_I and R_J is independently

hydrogen, a linear or branched, substituted or unsubstituted, cyclic or acyclic

alkyl moiety, or a substituted or unsubstituted aryl moiety;

wherein the crosslinker is a moiety derived from a crosslinking reagent capable of conjugating a surface amine of the carrier with a terminal thiol of the linker;

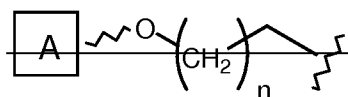
wherein the carrier is a protein or lipid;

wherein m is 1

wherein q is 0 or 1;

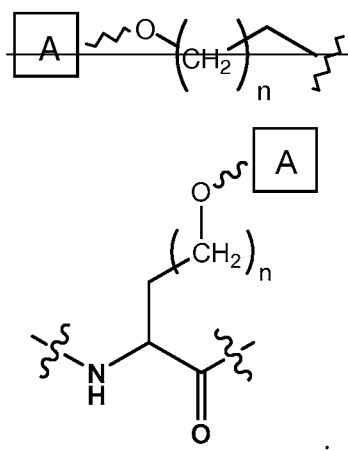
~~wherein each occurrence of R_A , R_B and R_C is independently H or methyl; and~~

~~wherein each occurrence of R_D , R_E and R_F is independently an alkyl glycosidic moiety having the structure:~~



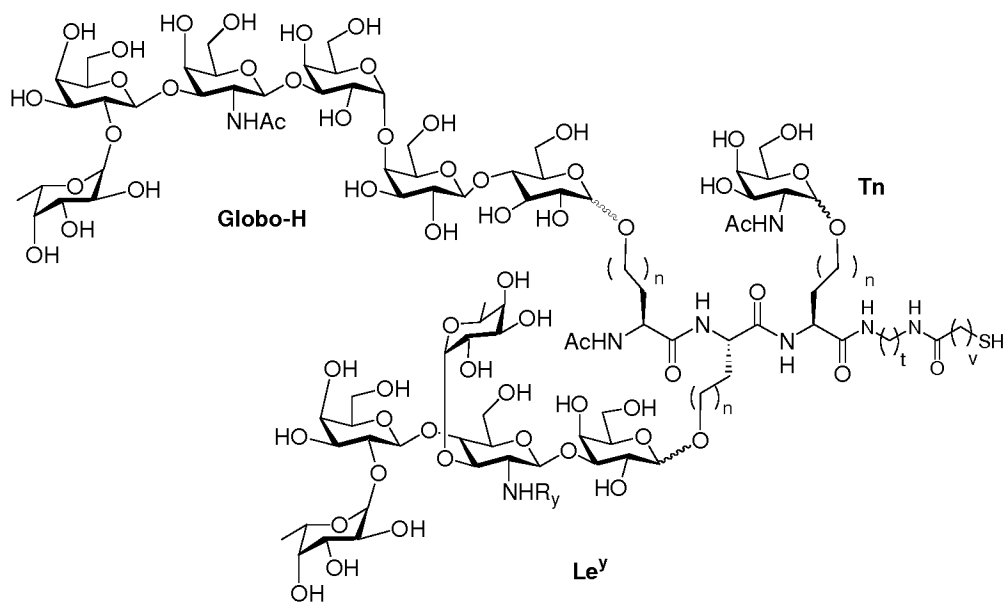
~~wherein each occurrence of n is independently 0-8 1-8.~~

102. **(Currently Amended)** The pharmaceutical composition of claim 91, wherein the glycopeptide has six occurrences of the alkyl glycosidic amino acid ~~moiety~~ having the structure:



103. **(New)** The glycopeptide of claim 56, wherein the glycopeptide has three occurrences of A comprising Tn, Globo-H and Le^y.

104. **(New)** The glycopeptide of claim 103, wherein the glycopeptide has the structure:



wherein n is an integer from 1-8, t is 3, and v is 1.

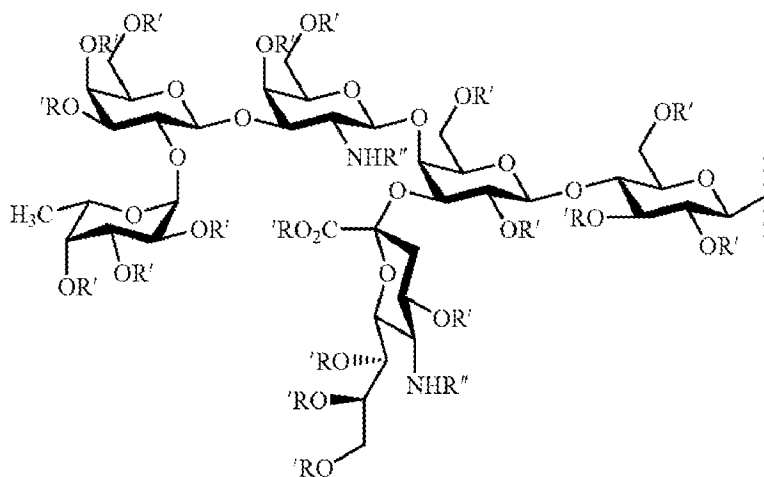
UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 1, column 61, lines 7-24, please delete the structure:



and insert the structure:

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Choate, Hall & Stewart LLP
Two International Place, Boston, MA 02110

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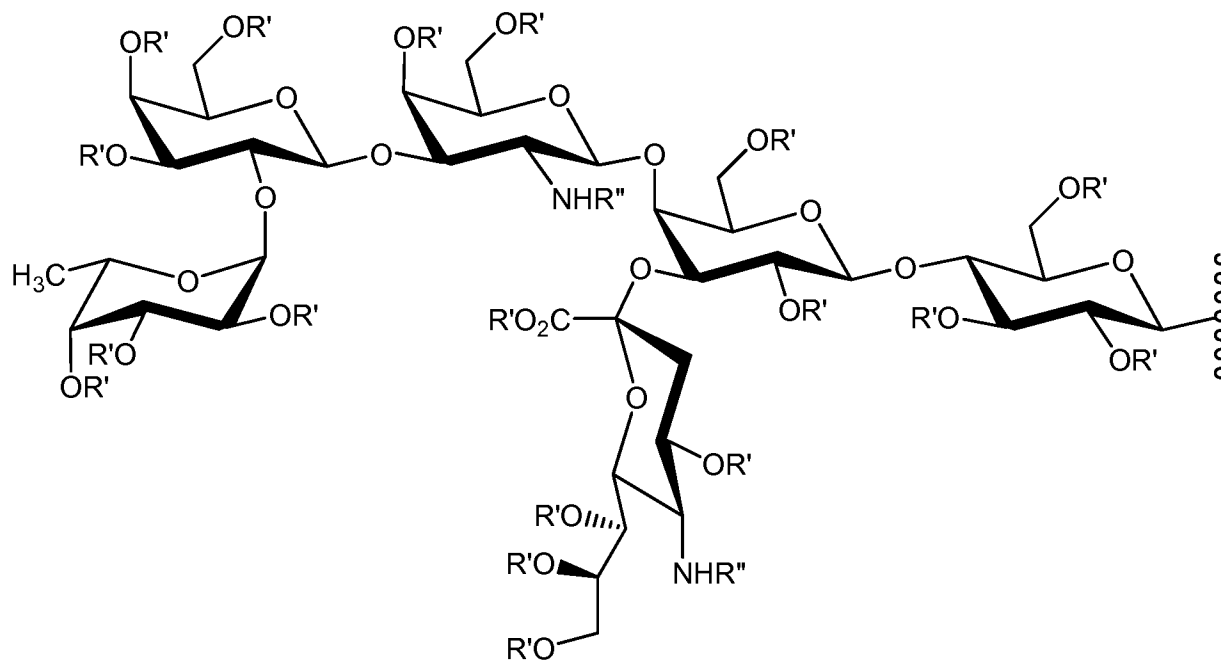
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 2 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

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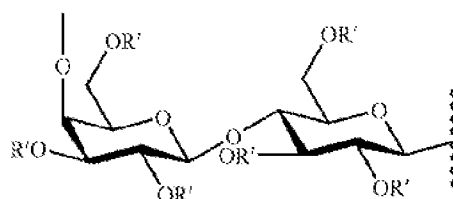
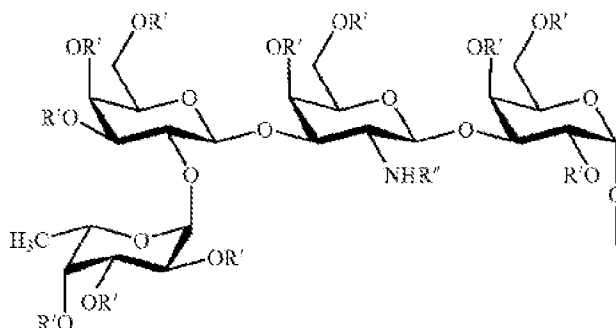
UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 3 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 1, column 61, lines 26-48, please delete the structure:



and insert the structure:

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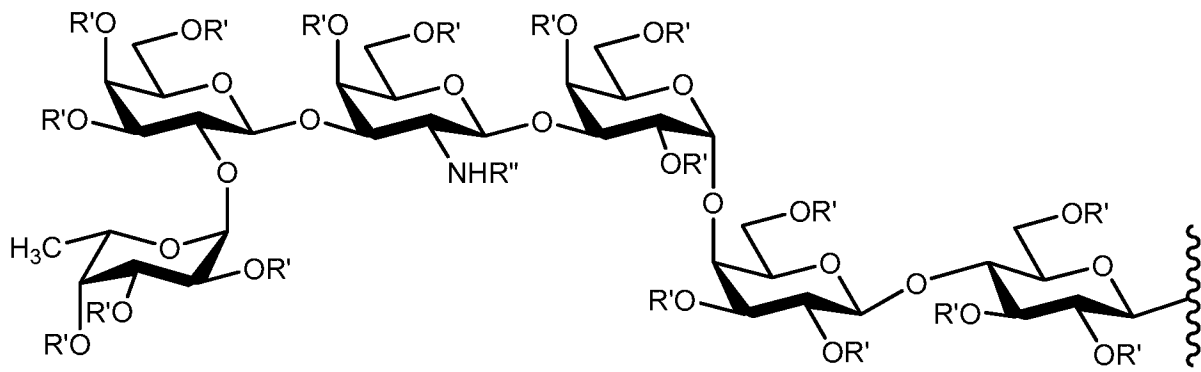
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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 4 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 5 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 5, column 62, lines 44-50, please delete:

“wherein, for each of the structures above, n is 1-8, wherein A is a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Lee, N3, Tn, 2,6-STn, (2,3)ST, TF, and protected form thereof, a carbohydrate domain having the structure:”

and insert:

--wherein, for each of the structures above, n is 1-8, wherein A is a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, TF, and protected form thereof, a carbohydrate domain having the structure:--

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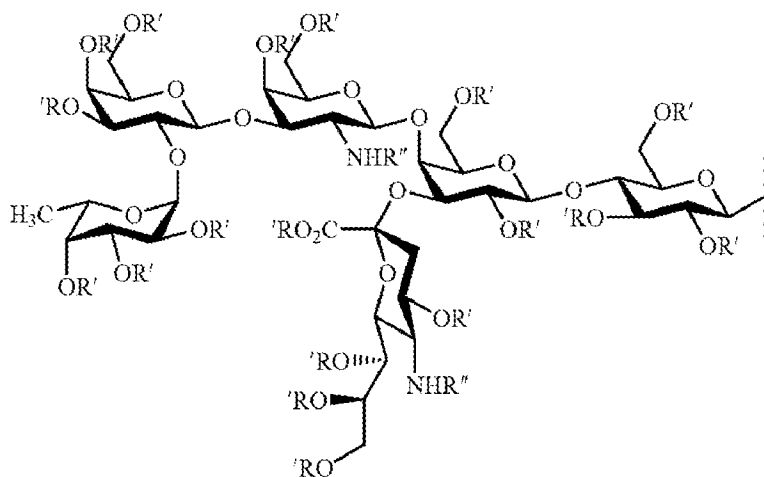
UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 6 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 5, column 62, lines 51-66, please delete the structure:



and insert the structure:

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Page 7 of 49

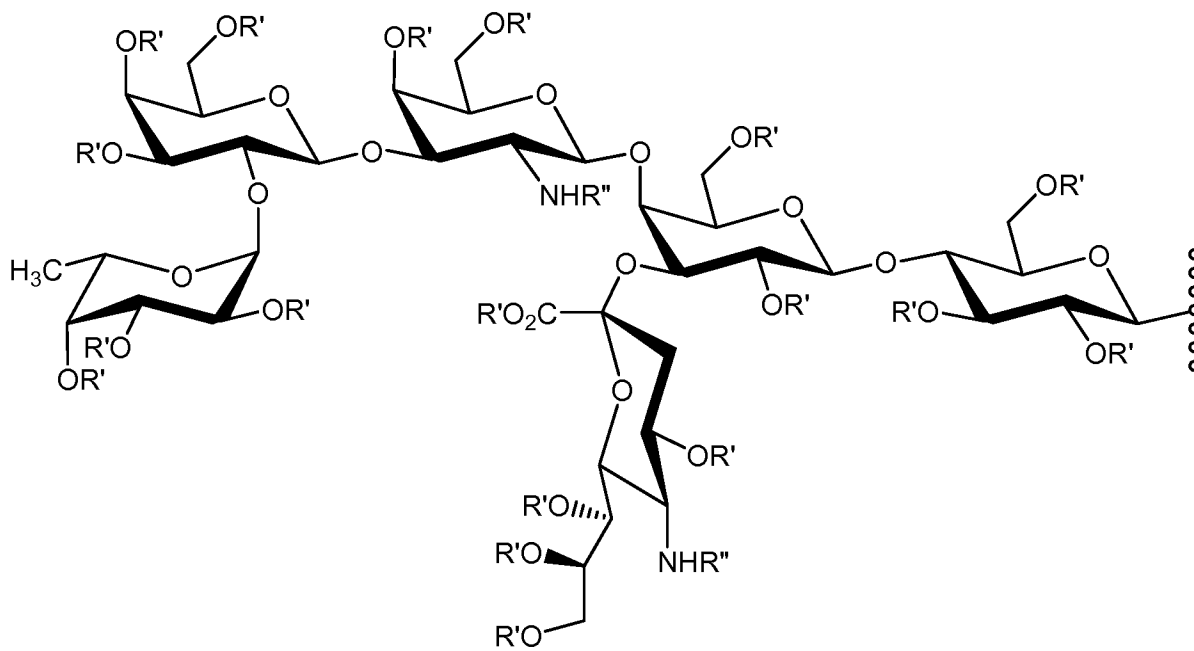
PATENT NO. : 7,879,335

APPLICATION NO.: 09/641,742

ISSUE DATE : February 01, 2011

INVENTOR(S) : Danishefsky et al.

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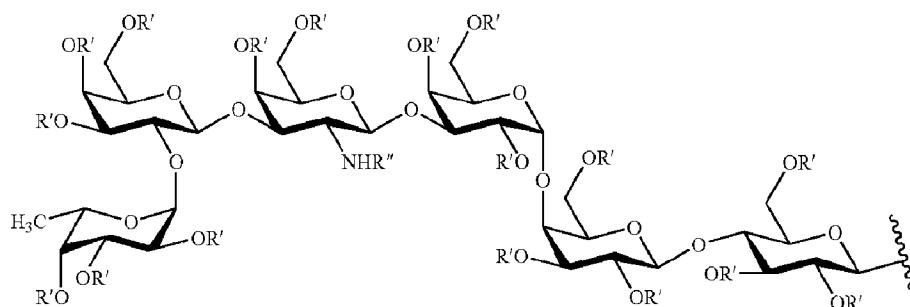
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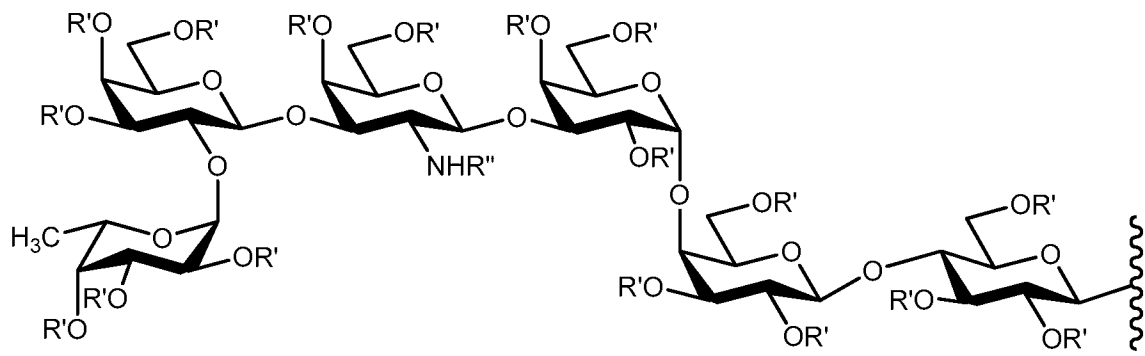
PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 5, columns 63 and 64, lines 2-17, please delete the structure:



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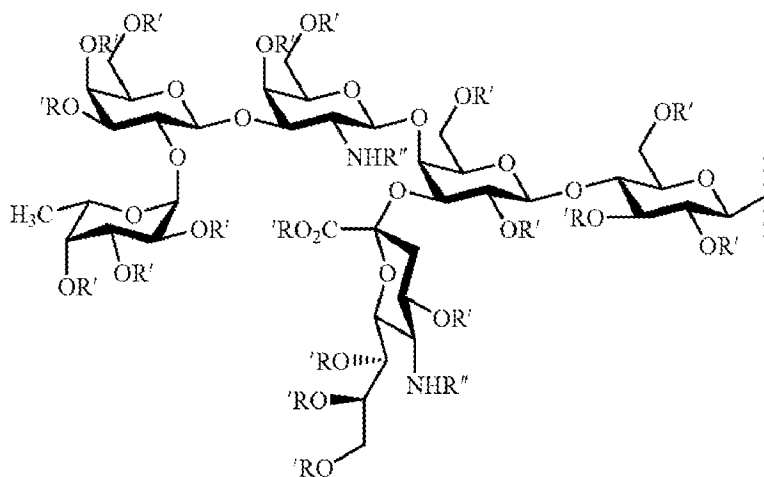
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Page 9 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 6, column 64, lines 52-66, please delete the structure:



and insert the structure:

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Page 10 of 49

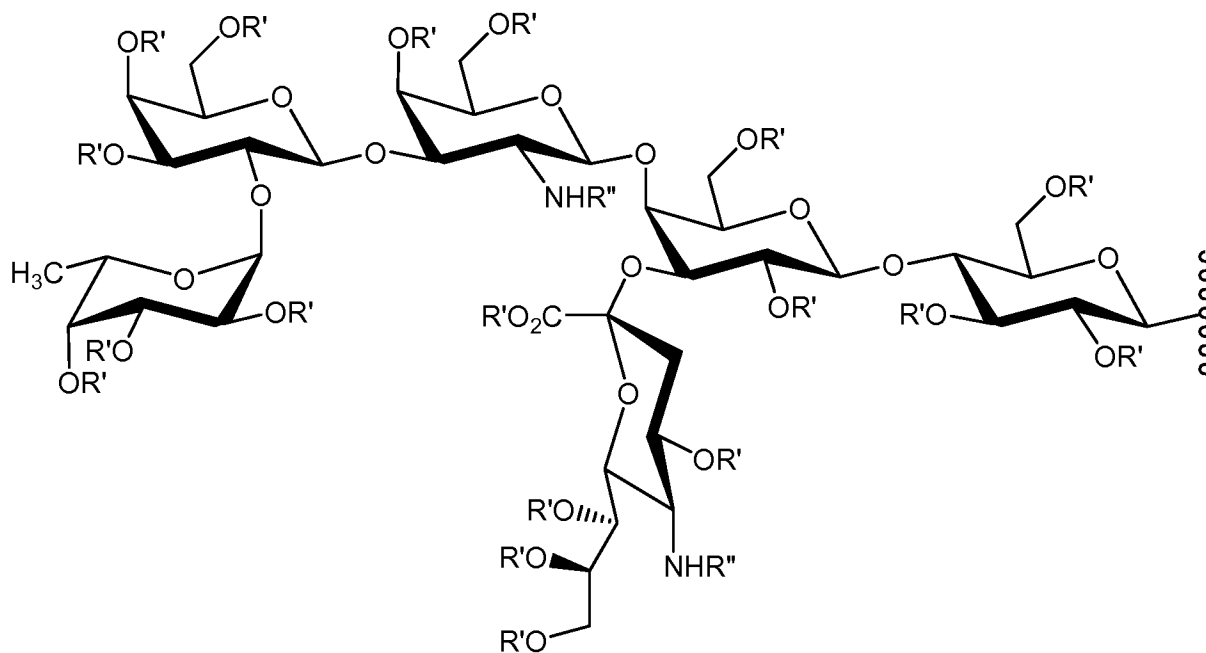
PATENT NO. : 7,879,335

APPLICATION NO.: 09/641,742

ISSUE DATE : February 01, 2011

INVENTOR(S) : Danishefsky et al.

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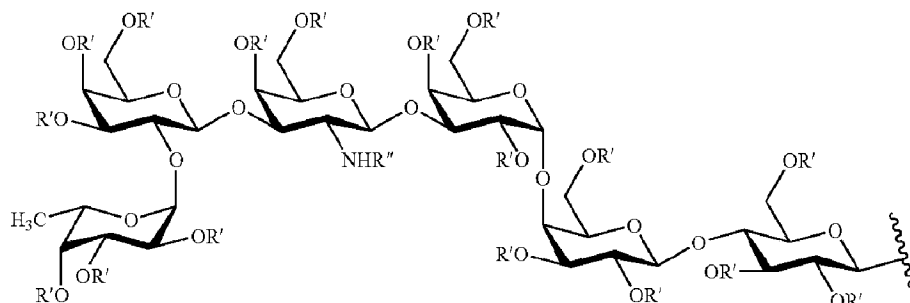
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Page 11 of 49

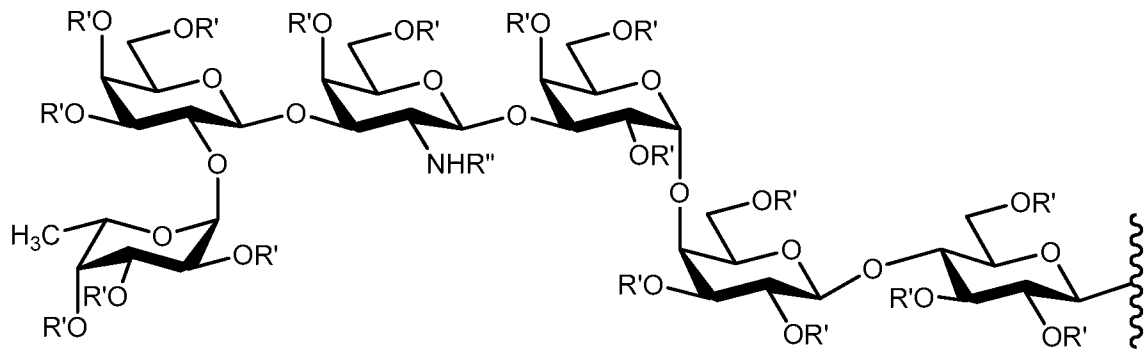
PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 6, columns 65 and 66, lines 2-14, please delete the structure:



and insert the structure:



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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 12 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 10, column 66, lines 28-31, please delete:

“10. The glycopeptide of claim 1 or 9 or the construct of claim 6, wherein each occurrence of A is independently Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Lee, N3, Tn, 2,6-STn, (2,3)ST, or TF.”

and insert:

--10. The glycopeptide of claim 1 or 9 or the construct of claim 6, wherein each occurrence of A is independently Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, or TF.--

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PATENT DEPARTMENT
Choate, Hall & Stewart LLP
Two International Place, Boston, MA 02110

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If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

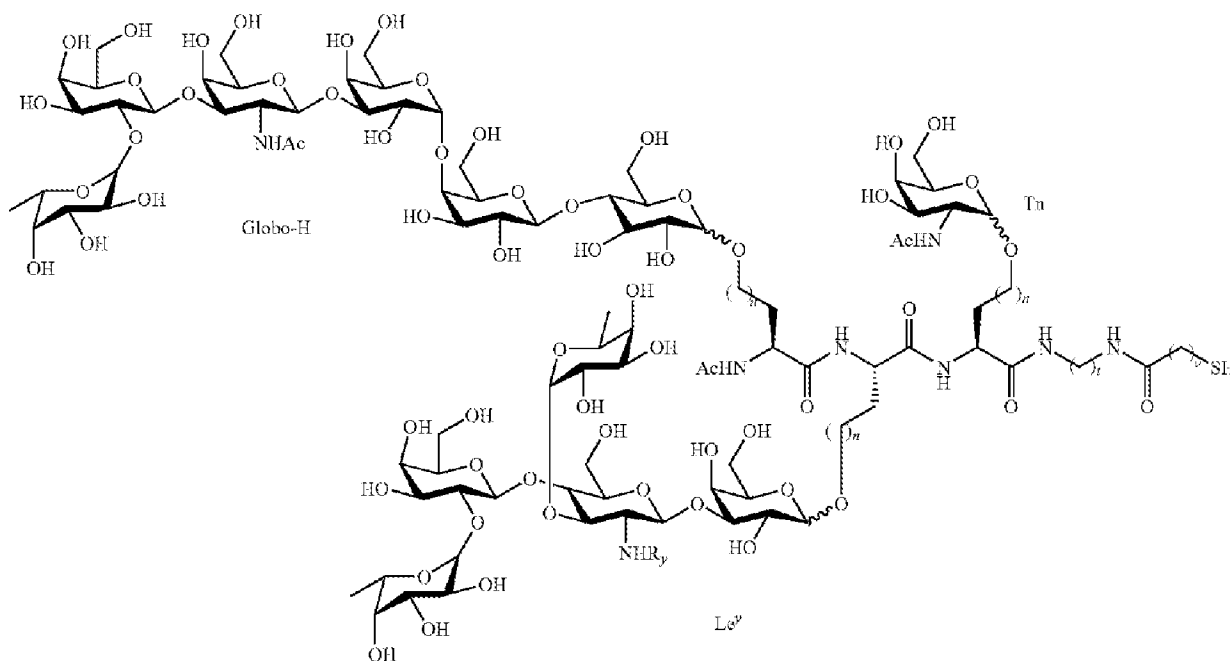
UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 13 of 49

PATENT NO. : 7,879,335
 APPLICATION NO.: 09/641,742
 ISSUE DATE : February 01, 2011
 INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 14, columns 65 and 66, lines 40-66, please delete the structure:



and insert the structure:

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 Choate, Hall & Stewart LLP
 Two International Place, Boston, MA 02110

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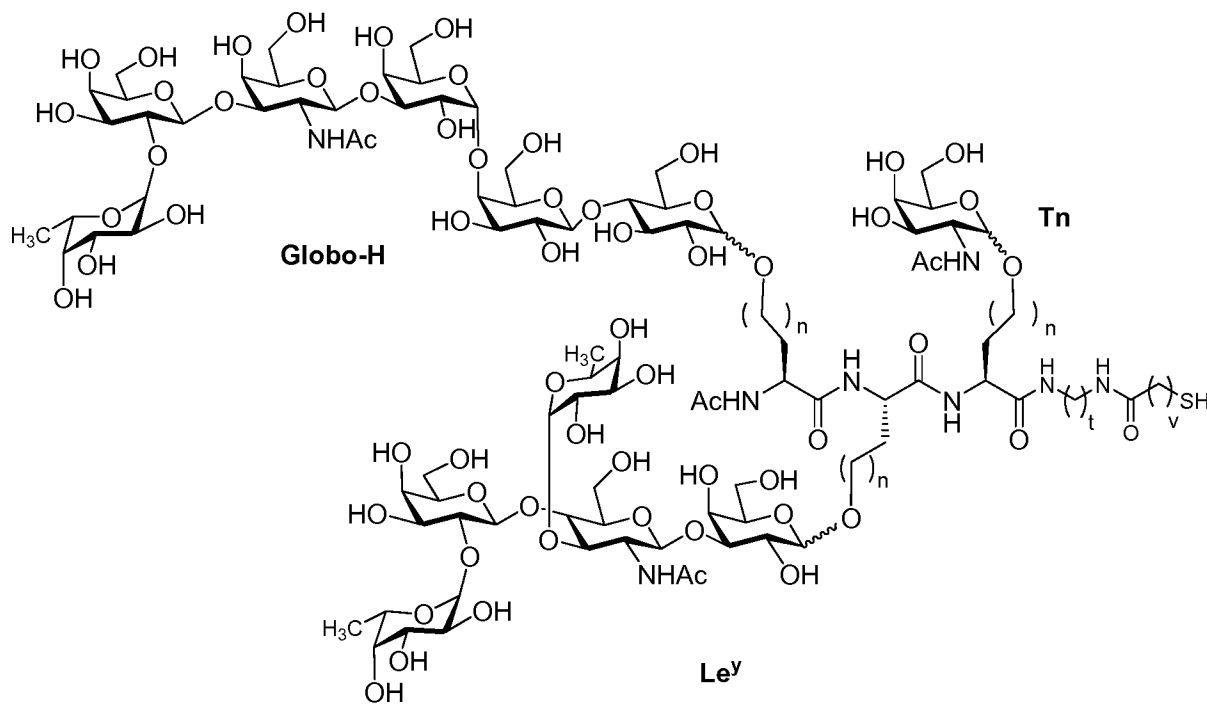
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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 14 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:



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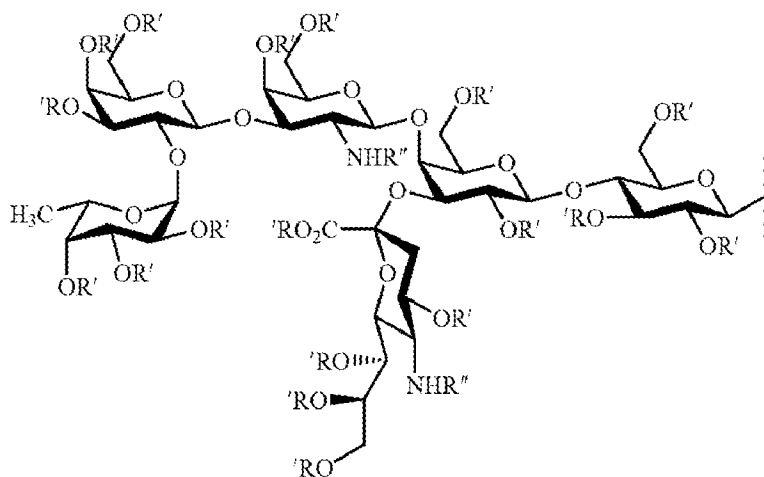
UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 15 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 15, column 68, lines 3-18, please delete the structure:



and insert the structure:

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Choate, Hall & Stewart LLP
Two International Place, Boston, MA 02110

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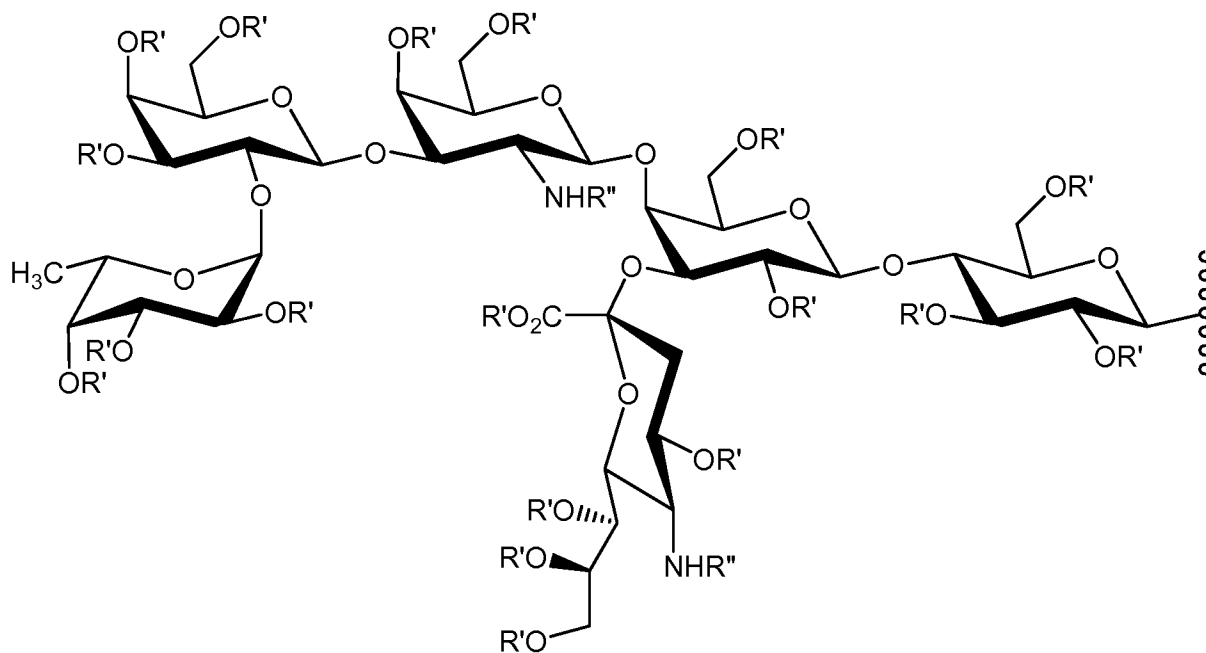
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 16 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

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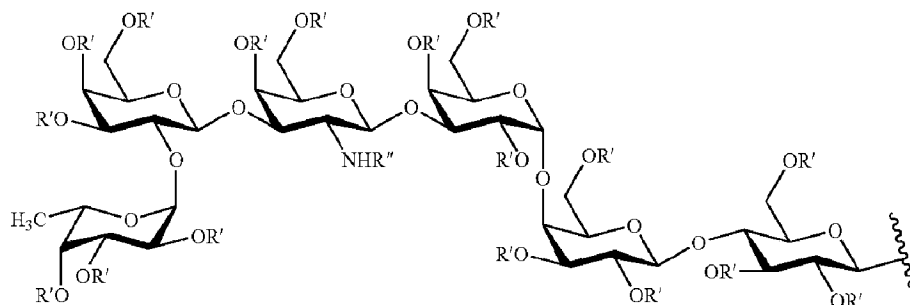
UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

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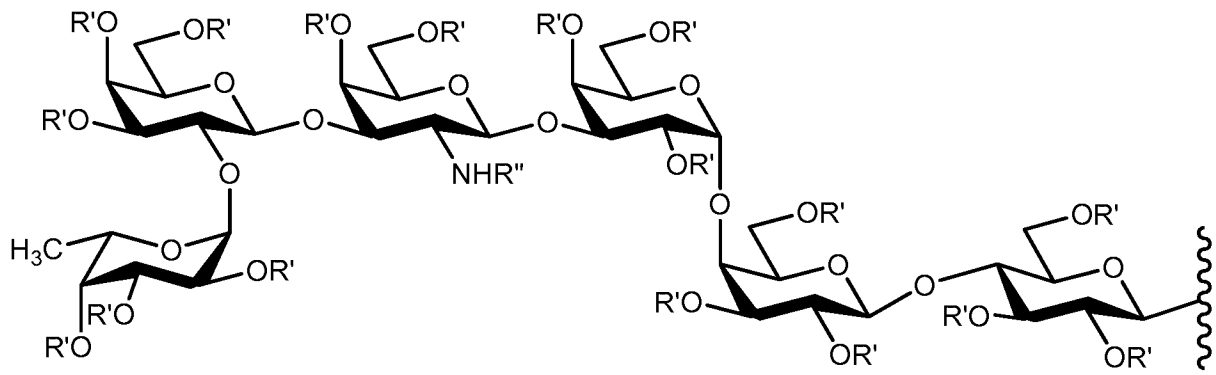
PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 15, columns 67-68, lines 20-35, please delete the structure:



and insert the structure:



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Choate, Hall & Stewart LLP
Two International Place, Boston, MA 02110

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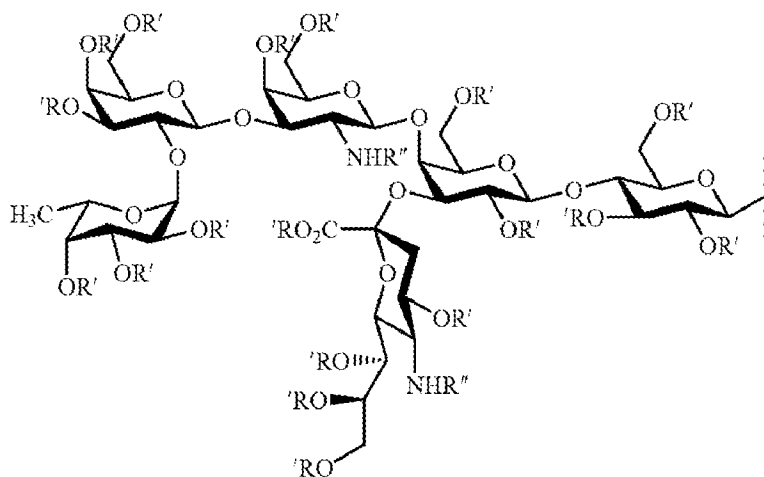
UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 18 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 15, column 68, lines 46-60, please delete the structure:



and insert the structure:

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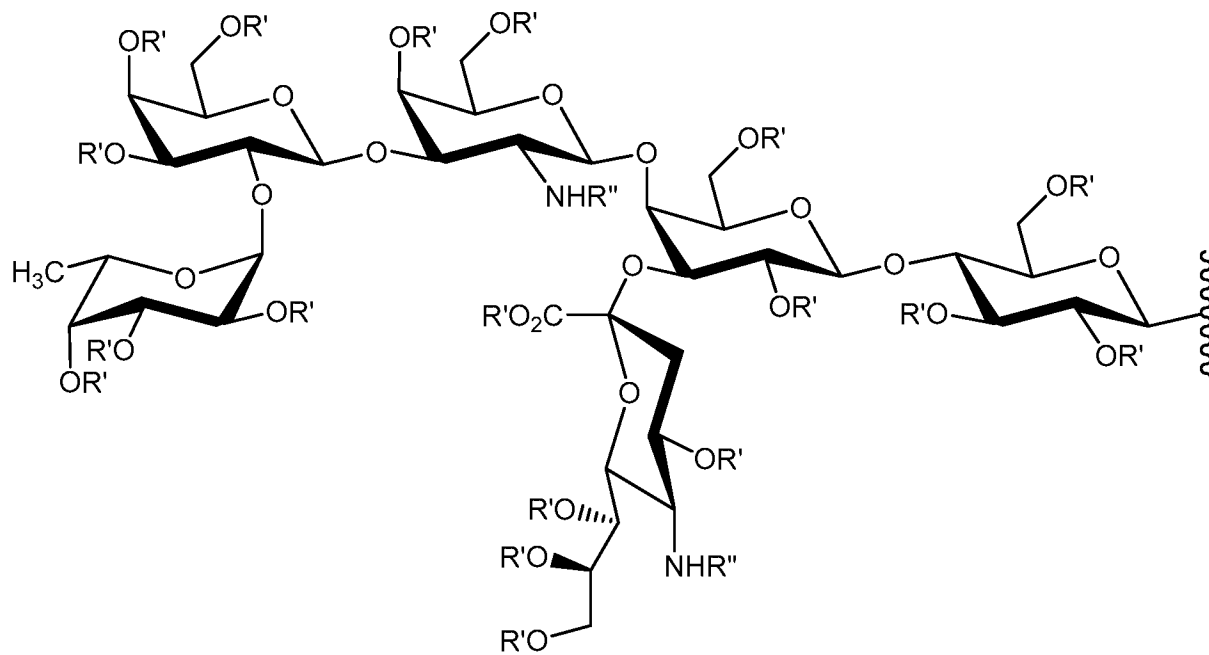
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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 19 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

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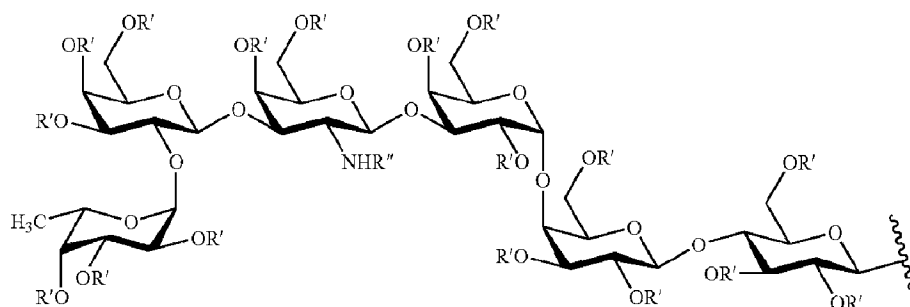
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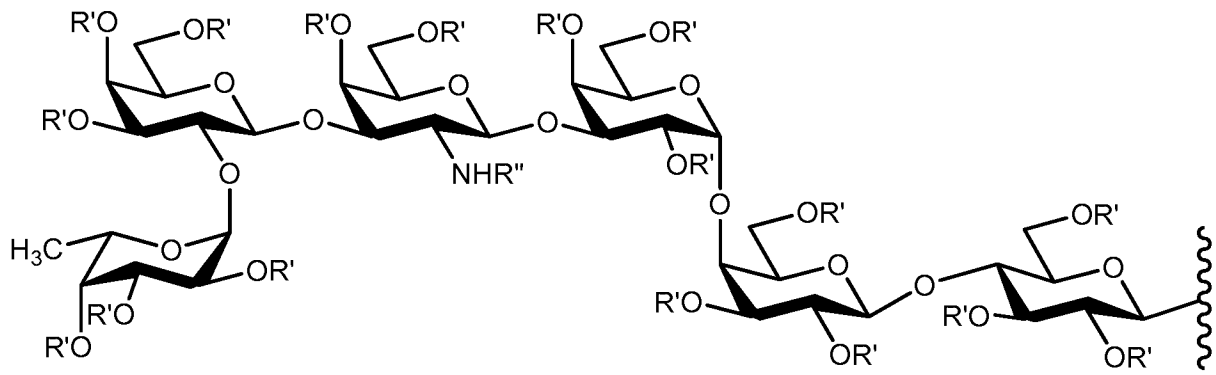
PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 16, columns 69 and 70, lines 1-14, please delete the structure:



and insert the structure:



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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 21 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 17, column 69, lines 48-52, please delete:

“each occurrence of A is independently a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Lee, N3, Tn, 2,6-STn, (2,3)ST, or TF, a carbohydrate domain having the structure:”

and insert:

-- each occurrence of A is independently a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, or TF, a carbohydrate domain having the structure:--

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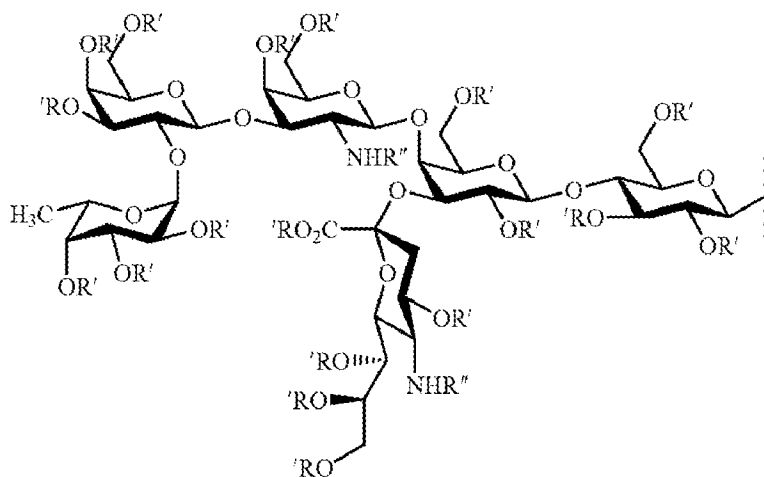
UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 22 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 17, column 70, lines 36-51, please delete the structure:



and insert the structure:

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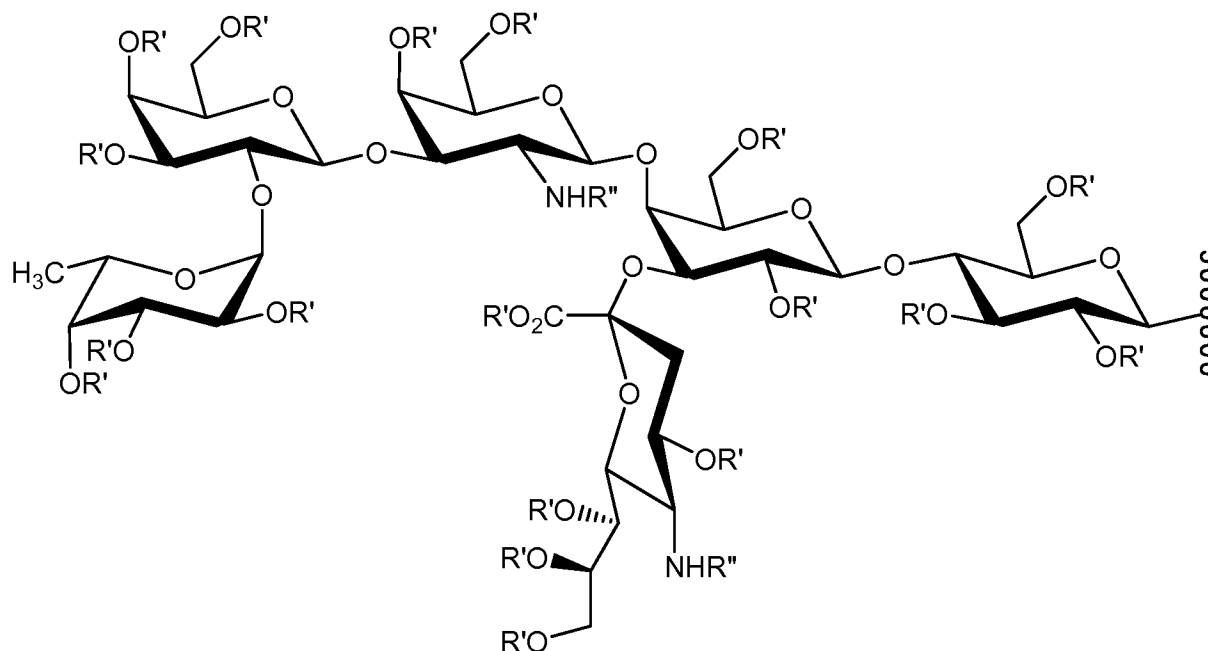
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 23 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

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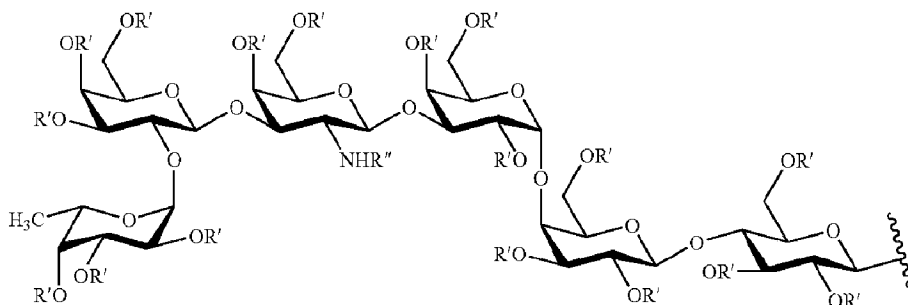
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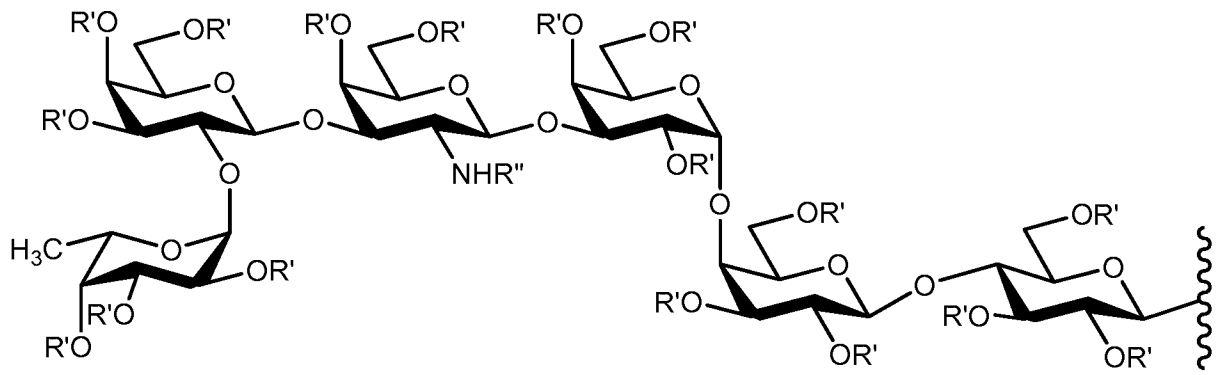
PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 17, columns 69 and 70, lines 53-66, please delete the structure:



and insert the structure:



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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 25 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 19, column 72, lines 31-35, please delete:

“wherein each occurrence of A is independently selected from a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Lee, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:”

and insert:

-- wherein each occurrence of A is independently selected from a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:--

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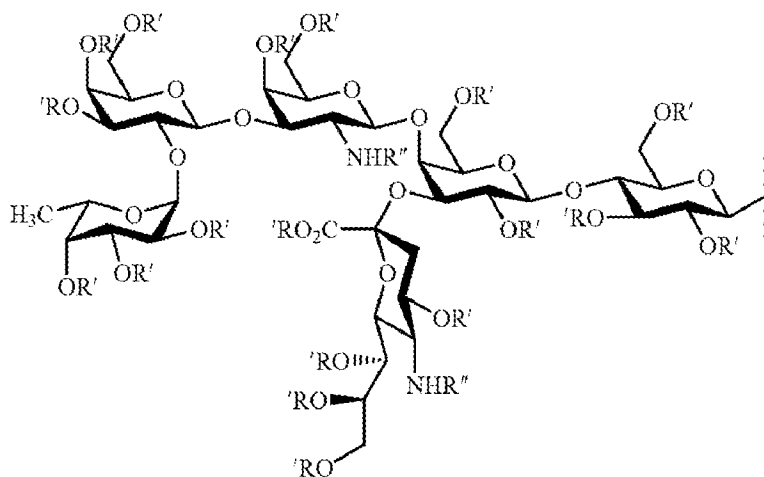
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PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 19, column 72, lines 36-50, please delete the structure:



and insert the structure:

MAILING ADDRESS OF SENDER (Please do not use customer number below):

PATENT DEPARTMENT
Choate, Hall & Stewart LLP
Two International Place, Boston, MA 02110

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

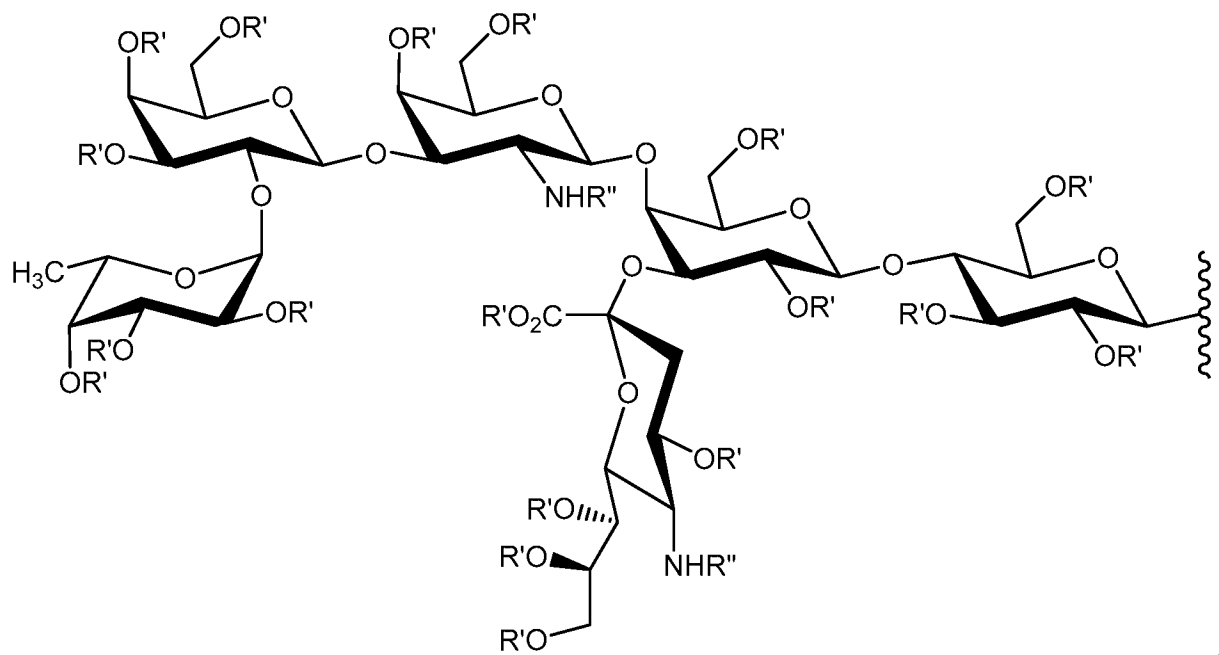
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 27 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:



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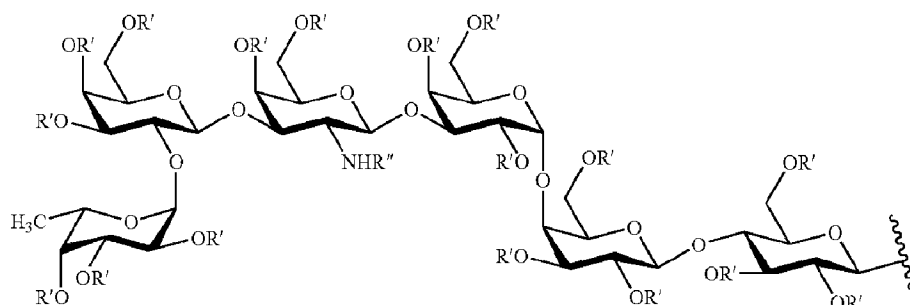
UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 28 of 49

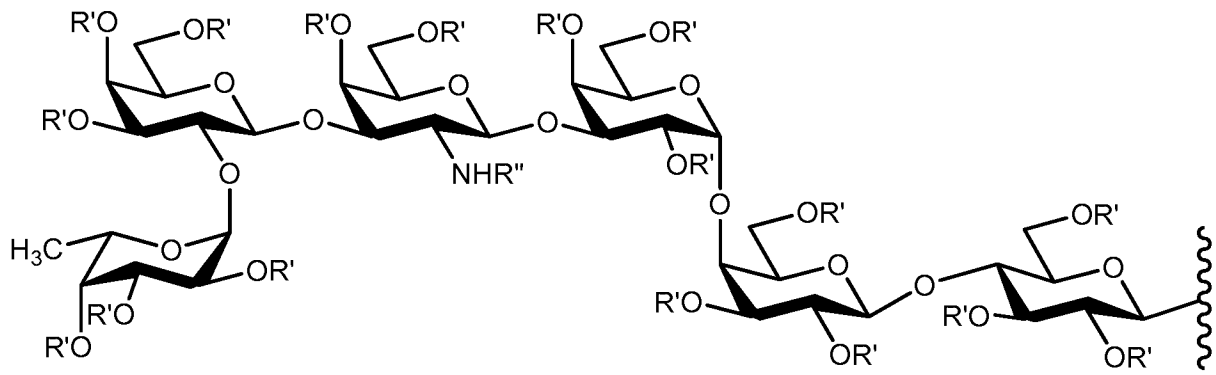
PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 19, columns 71 and 72, lines 53-66, please delete the structure:



and insert the structure:



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PATENT DEPARTMENT
Choate, Hall & Stewart LLP
Two International Place, Boston, MA 02110

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 29 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 21, column 74, lines 13-17, please delete:

“wherein each occurrence of A is a carbohydrate determinant selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Lee, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:”

and insert:

--wherein each occurrence of A is a carbohydrate determinant selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure: --

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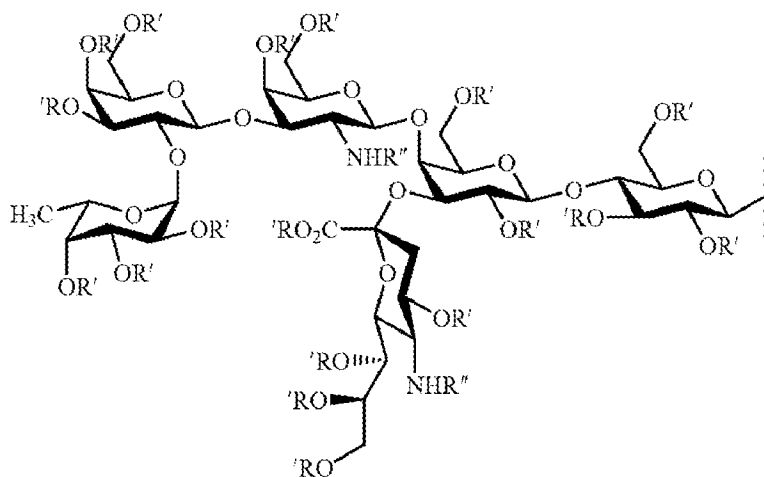
UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 30 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 21, column 74, lines 19-33, please delete the structure:



and insert the structure:

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PATENT DEPARTMENT
Choate, Hall & Stewart LLP
Two International Place, Boston, MA 02110

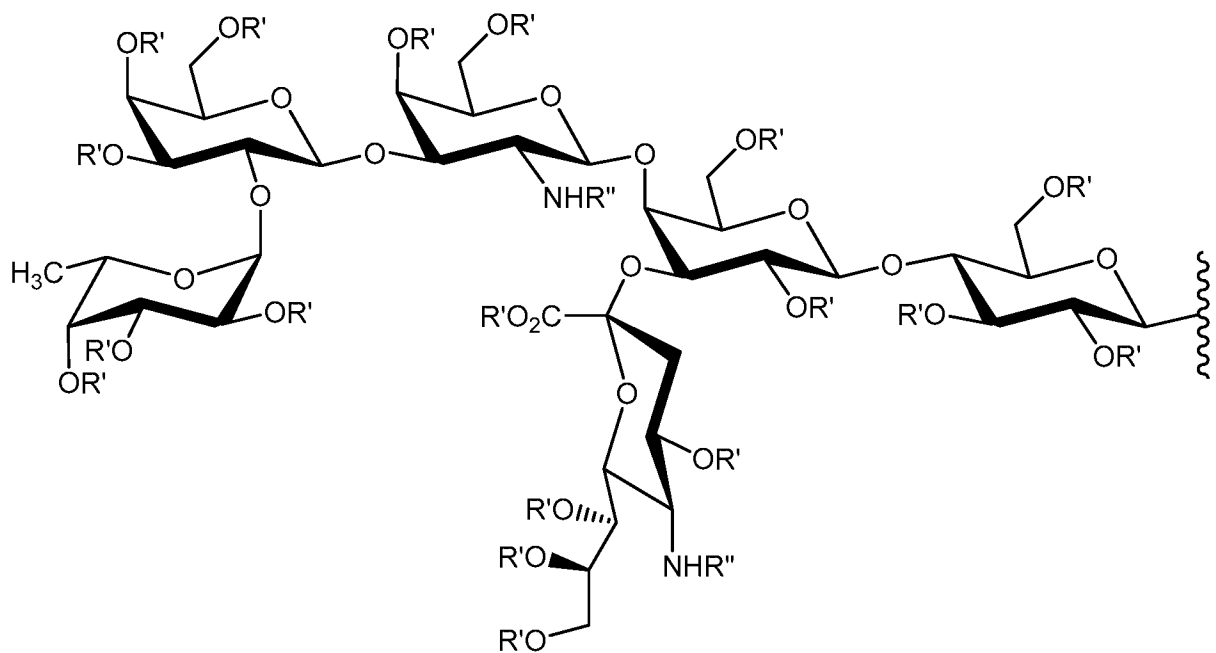
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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 31 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

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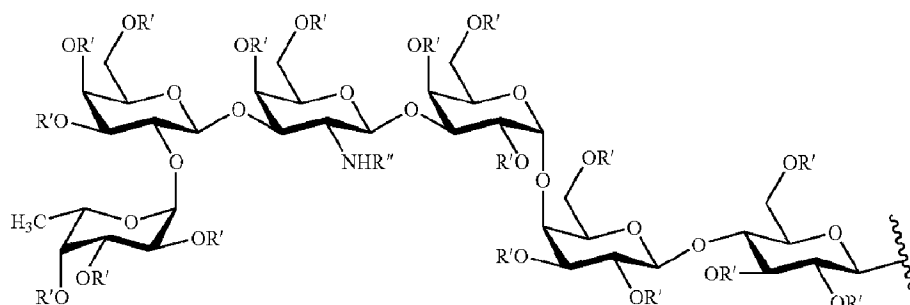
UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 32 of 49

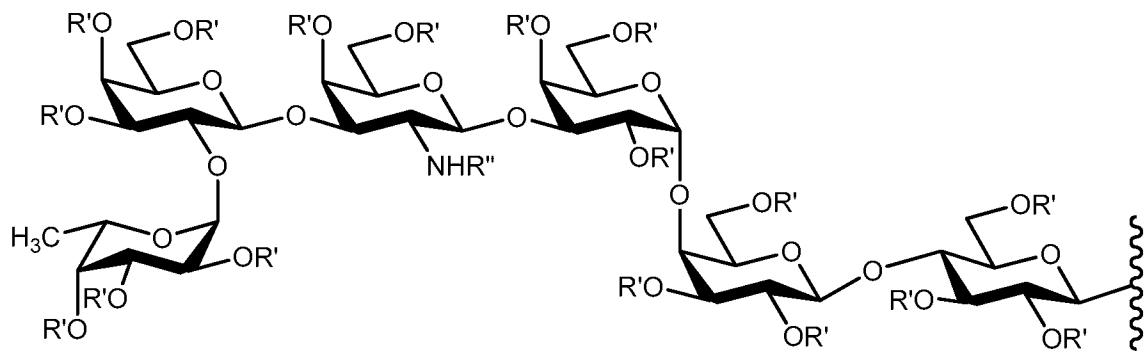
PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 21, columns 73 and 74, lines 36-50, please delete the structure:



and insert the structure:



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Choate, Hall & Stewart LLP
Two International Place, Boston, MA 02110

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 33 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 25, column 76, lines 20-24, please delete:

“wherein each occurrence of A is independently selected from a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Lee, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:”

and insert:

--wherein each occurrence of A is independently selected from a carbohydrate domain selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:--

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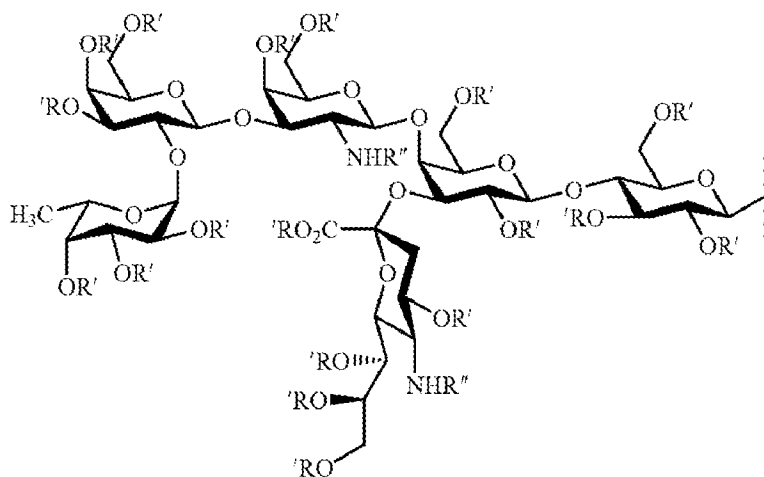
UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 34 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 25, column 76, lines 25-40, please delete the structure:



and insert the structure:

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Two International Place, Boston, MA 02110

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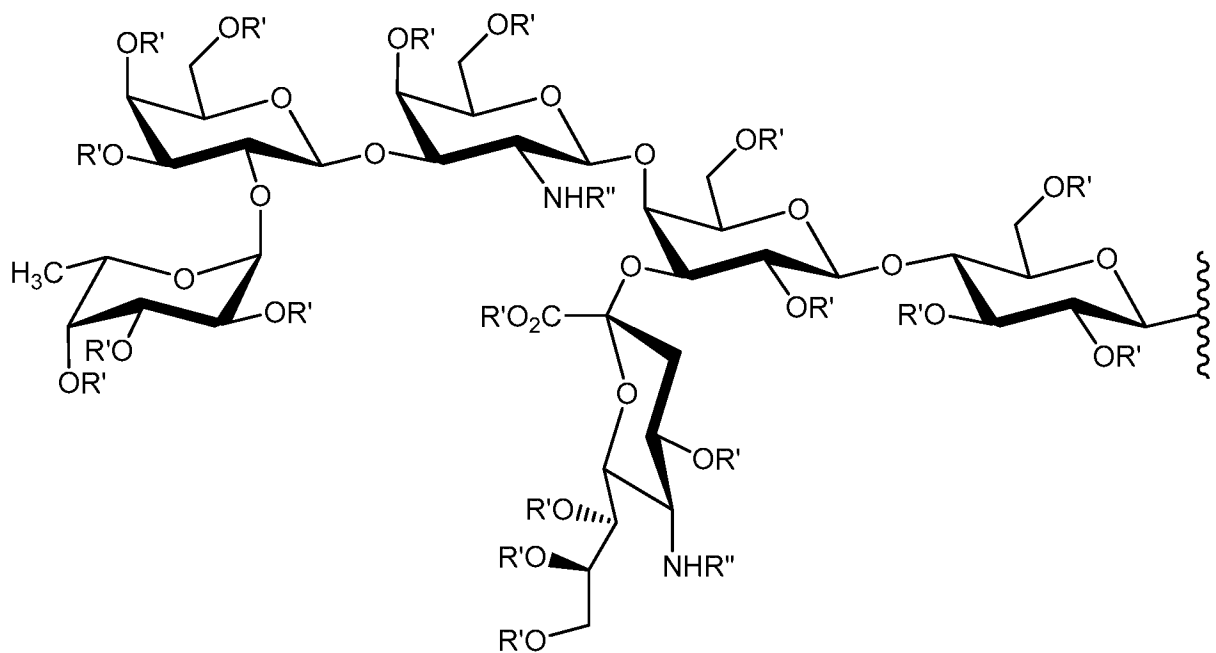
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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 35 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

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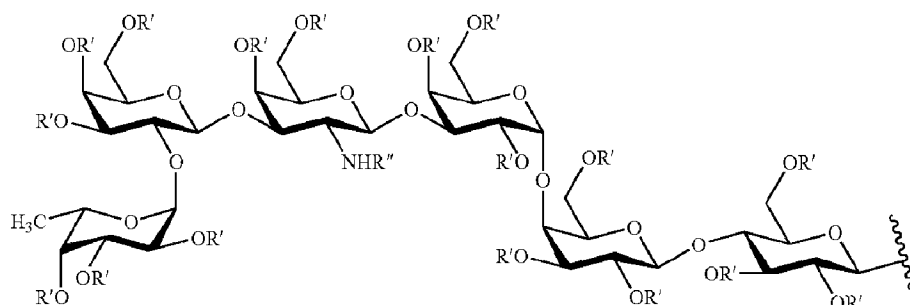
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Page 36 of 49

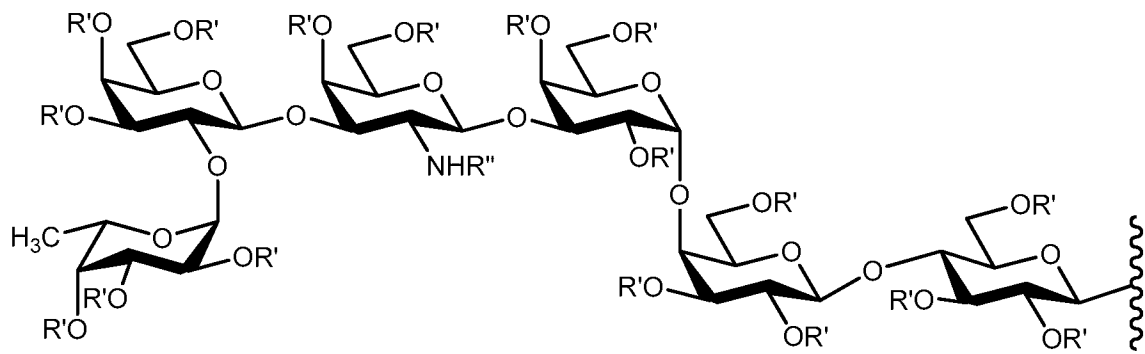
PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 25, columns 75 and 76, lines 42-58, please delete the structure:



and insert the structure:



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Choate, Hall & Stewart LLP
Two International Place, Boston, MA 02110

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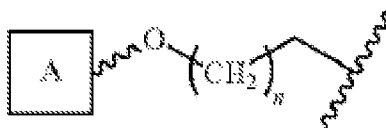
UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

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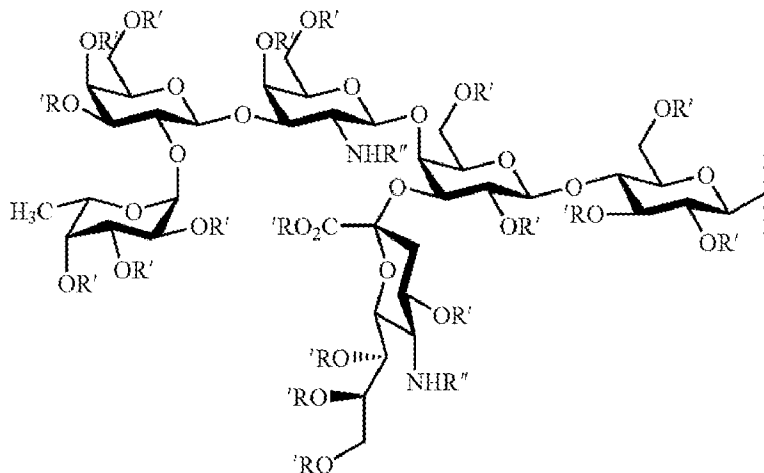
PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 32, column 78, lines 50-54, please delete the structure:



In claim 32, column 79, lines 4-18, please delete the structure:



and insert the structure:

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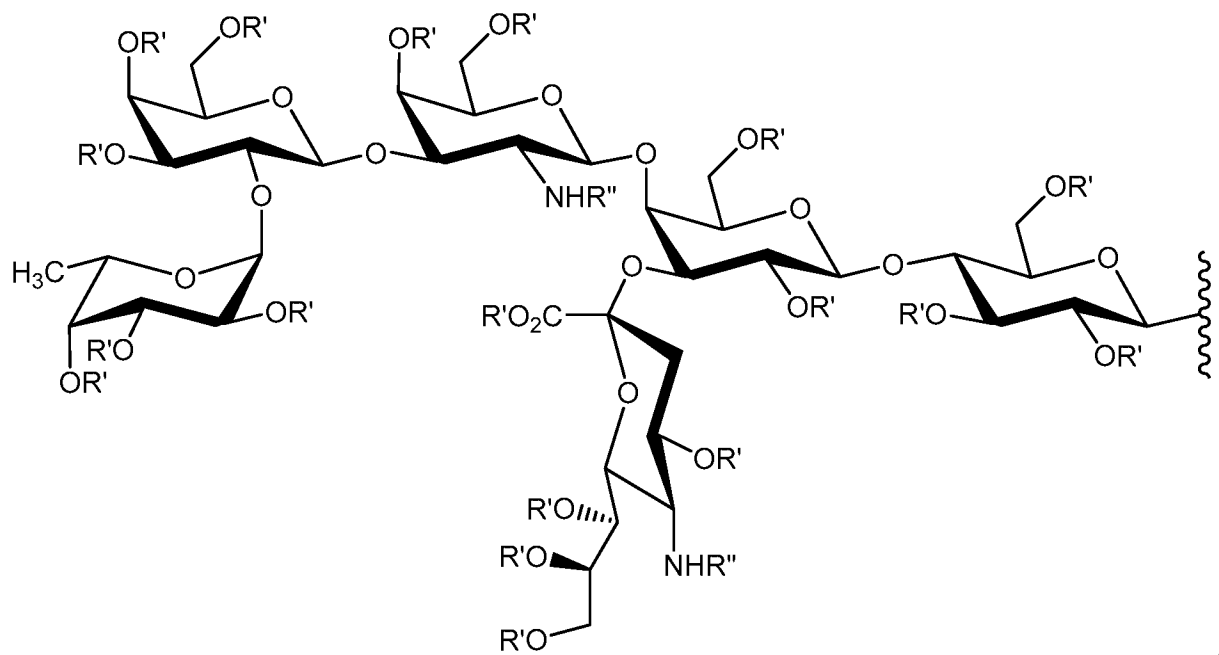
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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 38 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

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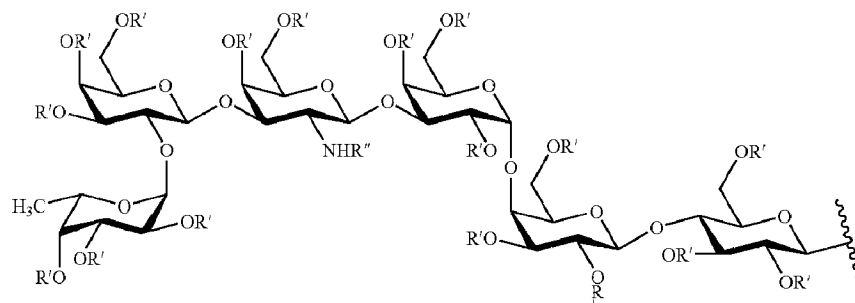
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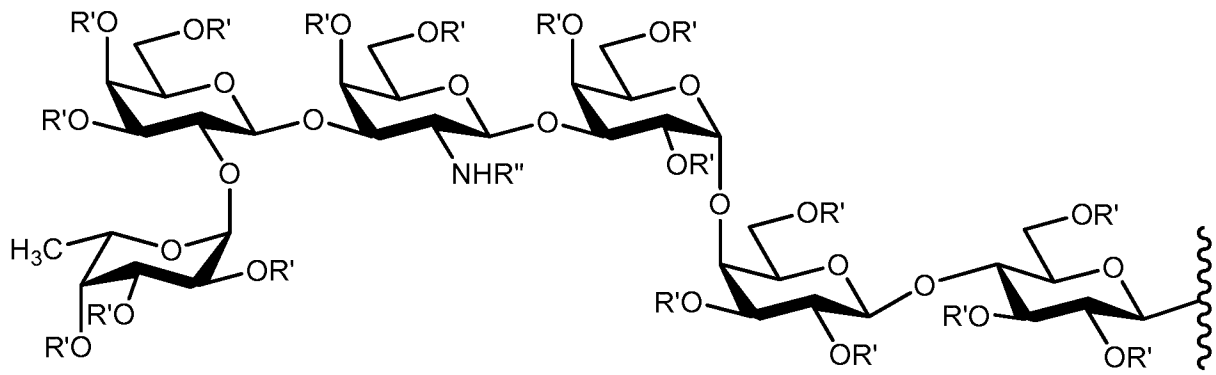
PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 32, columns 79-80, lines 21-36, please delete the structure:



and insert the structure:



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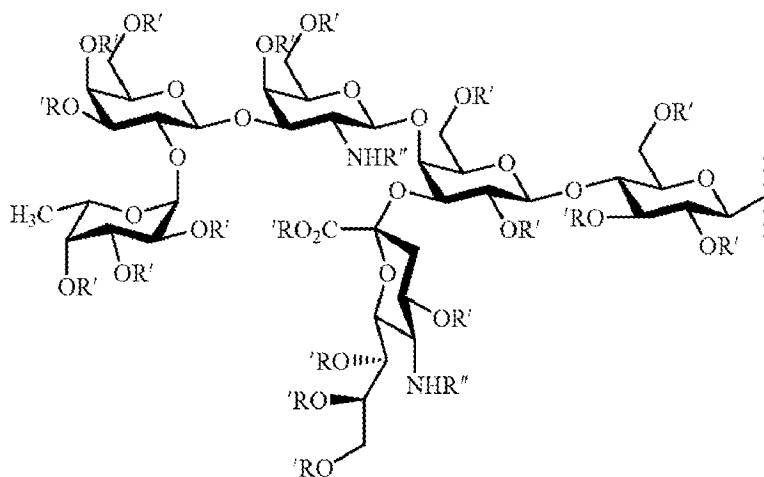
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PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

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In claim 32, column 79, lines 46-60, please delete the structure:



and insert the structure:

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Page 41 of 49

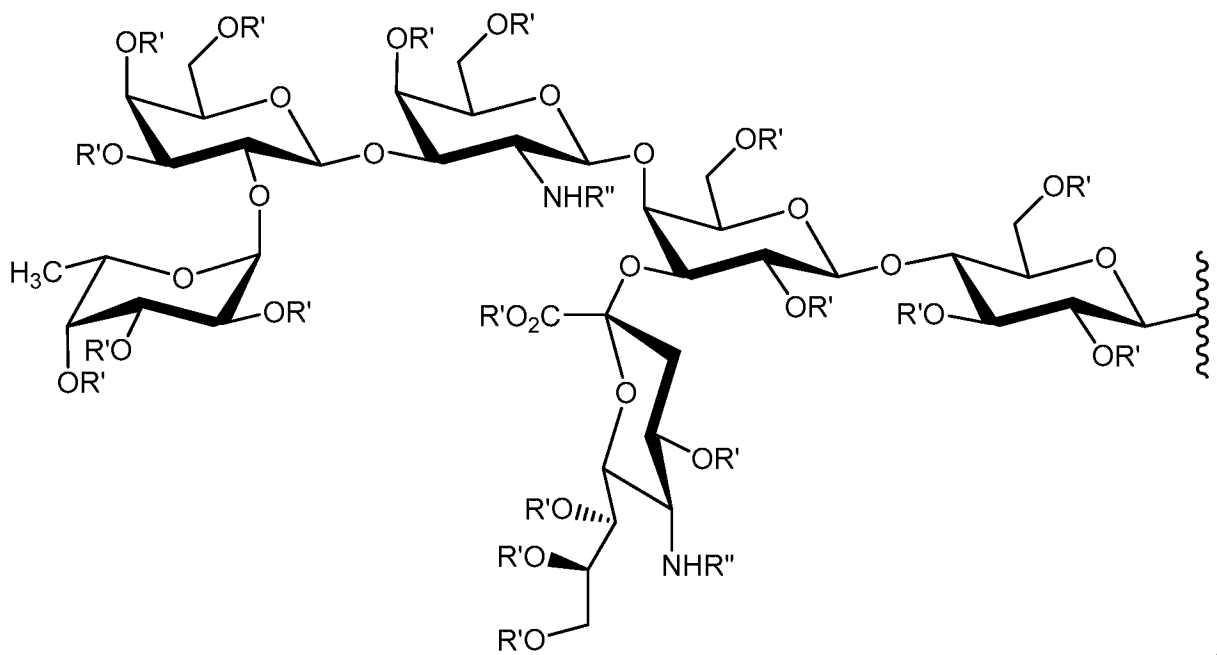
PATENT NO. : 7,879,335

APPLICATION NO.: 09/641,742

ISSUE DATE : February 01, 2011

INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:



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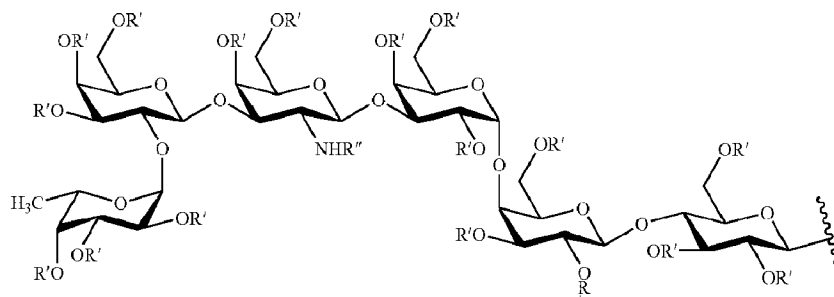
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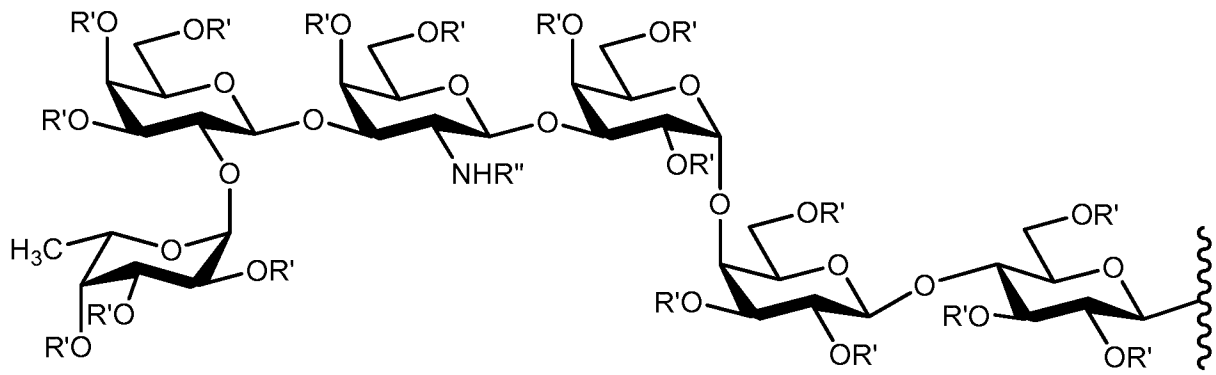
PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 33, columns 81-82, lines 1-15, please delete the structure:



and insert the structure:



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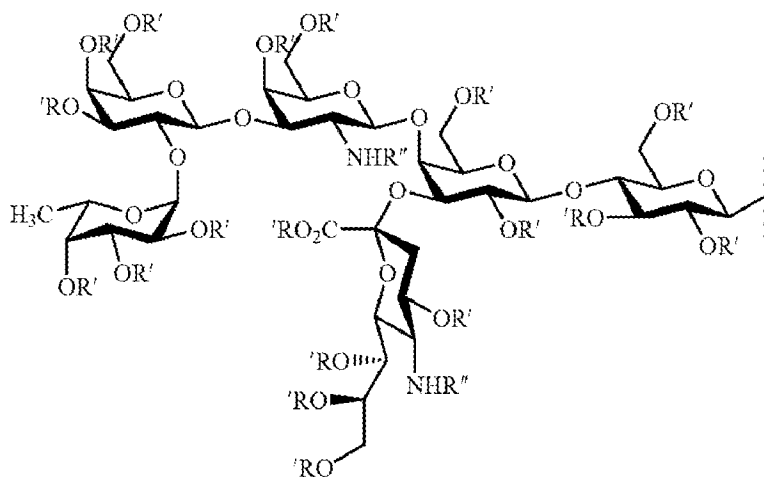
UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 43 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 34, column 81, lines 51-65, please delete the structure:



and insert the structure:

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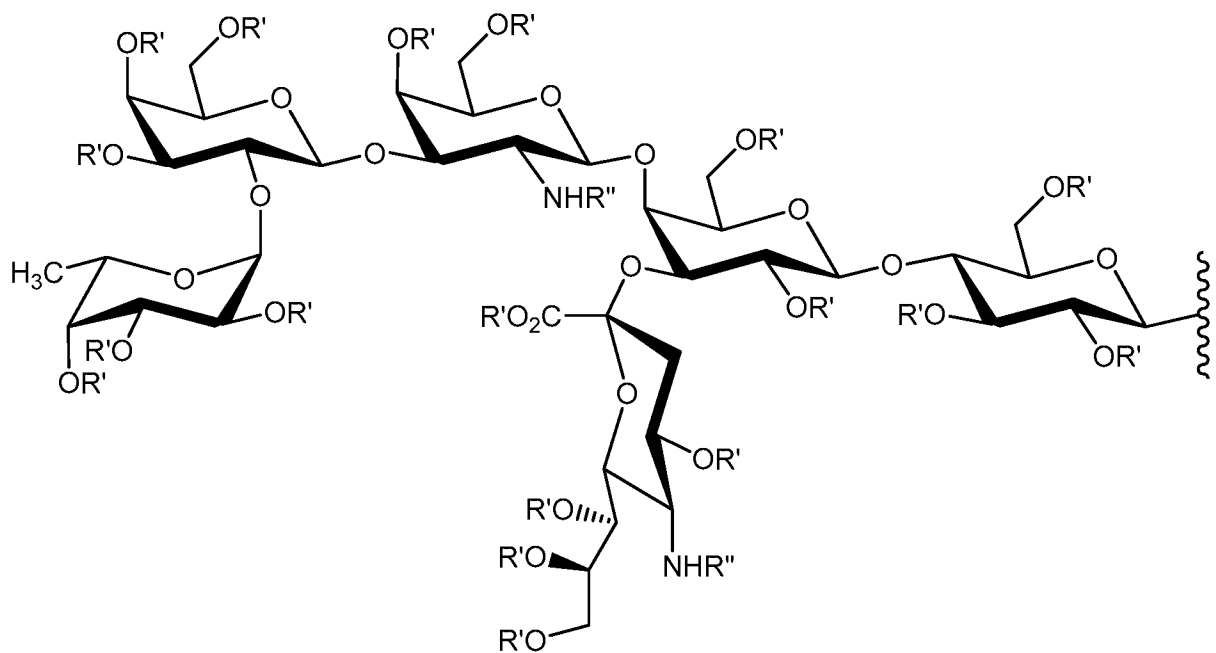
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Page 44 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

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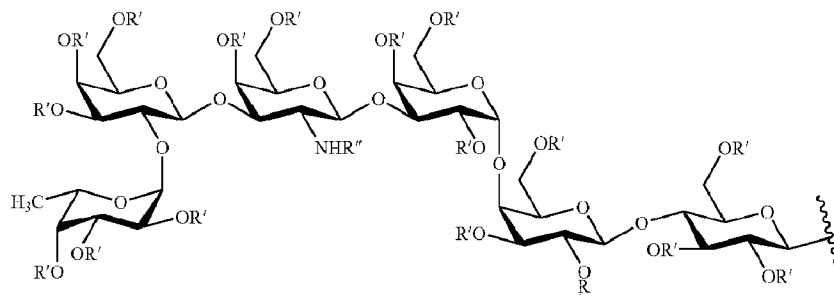
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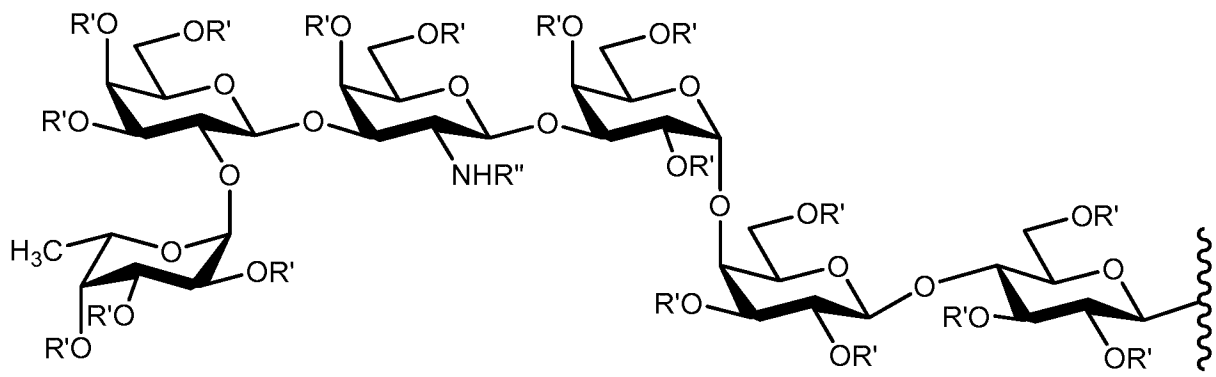
PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 34, columns 83-84, lines 1-15, please delete the structure:



and insert the structure:



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CERTIFICATE OF CORRECTION**

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PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 37, column 84, lines 17-21, please delete:

“wherein each occurrence of A is a carbohydrate determinant selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Lee, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure:”

and insert:

--wherein each occurrence of A is a carbohydrate determinant selected from the group consisting of Globo-H, fucosyl GM1, KH-1, glycophorin, STN, Le^y, N3, Tn, 2,6-STn, (2,3)ST, TF, a carbohydrate domain having the structure: --

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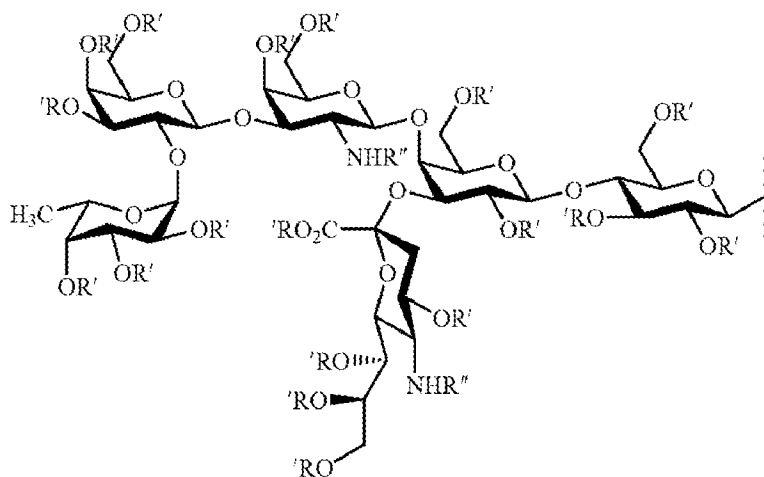
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Page 47 of 49

PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 37, column 84, lines 25-40, please delete the structure:



and insert the structure:

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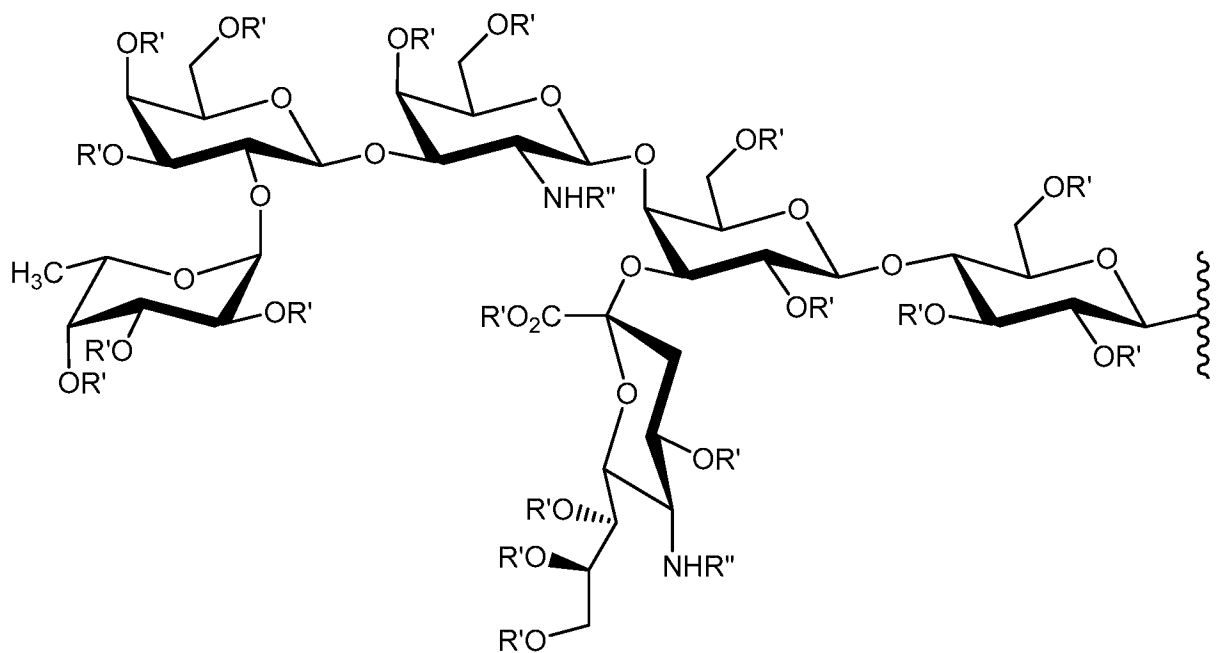
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PATENT NO. : 7,879,335
APPLICATION NO.: 09/641,742
ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

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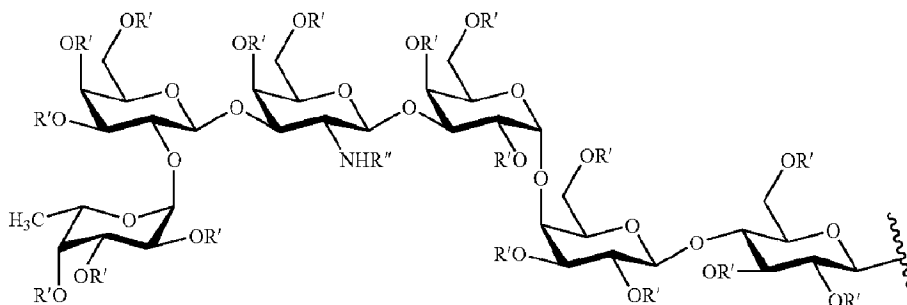
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Page 49 of 49

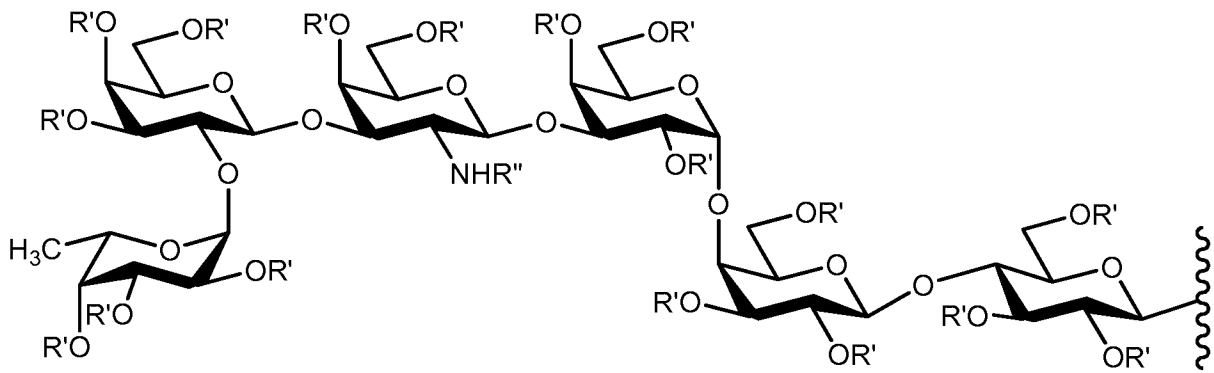
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ISSUE DATE : February 01, 2011
INVENTOR(S) : Danishefsky et al.

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In claim 37, columns 83-84, lines 45-58, please delete the structure:



and insert the structure:



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